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 */
package org.ajaxtags.tags;

import java.io.IOException;

import javax.servlet.jsp.JspException;
import javax.servlet.jsp.JspWriter;
import javax.servlet.jsp.tagext.TagSupport;

import org.apache.commons.lang.StringUtils;
import org.apache.taglibs.standard.lang.support.ExpressionEvaluatorManager;

/**
 * Tag handler for the autocomplete AJAX tag.
 *
 * @author Darren Spurgeon
 * @version $Revision: 1.2 $ $Date: 2007/06/20 20:55:56 $ $Author: jenskapitza $
 */
public class AjaxAutocompleteTag extends TagSupport {

    /**
     * serialVersionUID
     */
    private static final long serialVersionUID = -6332721548834673822L;

    private String var;

    private String attachTo;

    private String baseUrl;

    private String source;
```

```
private String target;

private String parameters;

private String minimumCharacters;

private String appendSeparator;

private String className;

private String preFunction;

private String postFunction;

private String errorFunction;

private String parser;

private String indicator;

public String getAppendSeparator() {
    return appendSeparator;
}

public void setAppendSeparator(String appendSeparator) {
    this.appendSeparator = appendSeparator;
}

public String getBaseUrl() {
    return baseUrl;
}

public void setBaseUrl(String baseUrl) {
    this.baseUrl = baseUrl;
}

public String getClassName() {
    return className;
}

public void setClassName(String className) {
    this.className = className;
}

public String getErrorFunction() {
    return errorFunction;
}
```

```
public void setErrorFunction(String errorFunction) {
    this.errorFunction = errorFunction;
}

public String getIndicator() {
    return indicator;
}

public void setIndicator(String indicator) {
    this.indicator = indicator;
}

public String getMinimumCharacters() {
    return minimumCharacters;
}

public void setMinimumCharacters(String minimumCharacters) {
    this.minimumCharacters = minimumCharacters;
}

public String getVar() {
    return var;
}

public void setVar(String var) {
    this.var = var;
}

public String getAttachTo() {
    return attachTo;
}

public void setAttachTo(String attachTo) {
    this.attachTo = attachTo;
}

public String getParameters() {
    return parameters;
}

public void setParameters(String parameters) {
    this.parameters = parameters;
}

public String getParser() {
    return parser;
}
```

```

public void setParser(String parser) {
    this.parser = parser;
}

public String getPreFunction() {
    return preFunction;
}

public void setPreFunction(String preFunction) {
    this.preFunction = preFunction;
}

public String getPostFunction() {
    return postFunction;
}

public void setPostFunction(String postFunction) {
    this.postFunction = postFunction;
}

public String getSource() {
    return source;
}

public void setSource(String source) {
    this.source = source;
}

public String getTarget() {
    return target;
}

public void setTarget(String target) {
    this.target = target;
}

@Override
public int doStartTag() throws JspException {
    // Required Properties
    this.baseUrl = (String) ExpressionEvaluatorManager.evaluate("baseUrl", this.baseUrl,
        String.class, this, super.pageContext);
    this.source = (String) ExpressionEvaluatorManager.evaluate("source", this.source, String.class,
        this, super.pageContext);
    this.target = (String) ExpressionEvaluatorManager.evaluate("target", this.target, String.class,
        this, super.pageContext);
    this.className = (String) ExpressionEvaluatorManager.evaluate("className", this.className,
        String.class, this, super.pageContext);
}

```

```

// Optional Properties
if (this.var != null) {
    this.var = (String) ExpressionEvaluatorManager.evaluate("var", this.var, String.class, this,
        super.pageContext);
}
if (this.attachTo != null) {
    this.attachTo = (String) ExpressionEvaluatorManager.evaluate("attachTo", this.attachTo,
        String.class, this, super.pageContext);
}
if (this.parameters != null) {
    this.parameters = (String) ExpressionEvaluatorManager.evaluate("parameters", this.parameters,
        String.class, this, super.pageContext);
}
if (this.minimumCharacters != null) {
    this.minimumCharacters = (String) ExpressionEvaluatorManager.evaluate("minimumCharacters",
        this.minimumCharacters, String.class, this, super.pageContext);
}
if (this.indicator != null) {
    this.indicator = (String) ExpressionEvaluatorManager.evaluate("indicator",
        this.indicator, String.class, this, super.pageContext);
}
if (this.preFunction != null) {
    this.preFunction = (String) ExpressionEvaluatorManager.evaluate("preFunction",
        this.preFunction, String.class, this, super.pageContext);
}
if (this.postFunction != null) {
    this.postFunction = (String) ExpressionEvaluatorManager.evaluate("postFunction",
        this.postFunction, String.class, this, super.pageContext);
}
if (this.errorFunction != null) {
    this.errorFunction = (String) ExpressionEvaluatorManager.evaluate("errorFunction",
        this.errorFunction, String.class, this, super.pageContext);
}
return SKIP_BODY;
}

```

@Override

```

public int doEndTag() throws JspException {
    OptionsBuilder options = new OptionsBuilder();
    options.add("source", this.source, true).add("target", this.target, true).add("className",
        this.className, true);
    if (this.parameters != null)
        options.add("parameters", this.parameters, true);
    if (this.indicator != null)
        options.add("indicator", this.indicator, true);
    if (this.minimumCharacters != null)
        options.add("minimumCharacters", this.minimumCharacters, true);
    if (this.appendSeparator != null)

```

```

    options.add("appendSeparator", this.appendSeparator, true);
    if (this.preFunction != null)
        options.add("preFunction", this.preFunction, false);
    if (this.postFunction != null)
        options.add("postFunction", this.postFunction, false);
    if (this.errorFunction != null)
        options.add("errorFunction", this.errorFunction, false);
    if (this.parser != null)
        options.add("parser", this.parser, false);

```

```

StringBuffer script = new StringBuffer();
script.append("<script type=\"text/javascript\">\n");
if (StringUtils.isNotEmpty(this.var)) {
    if (StringUtils.isNotEmpty(this.attachTo)) {
        script.append(this.attachTo).append(".").append(this.var);
    } else {
        script.append("var ").append(this.var);
    }
    script.append(" = ");
}
script
    .append("new AjaxJspTag.AutoComplete(\n")
    .append("\n")
    .append(this.baseUrl)
    .append("\", {\n")
    .append(options.toString())
    .append("});\n")
    .append("</script>\n\n");

```

```

JspWriter writer = pageContext.getOut();
try {
    writer.println(script);
} catch (IOException e) {
    throw new JspException(e.getMessage());
}
return EVAL_PAGE;
}

```

```

@Override
public void release() {
    this.var = null;
    this.attachTo = null;
    this.baseUrl = null;
    this.className = null;
    this.preFunction = null;
    this.errorFunction = null;
    this.minimumCharacters = null;
    this.appendSeparator = null;
}

```



```
this.parameters = null;
this.postFunction = null;
this.source = null;
this.target = null;
this.parser = null;
this.indicator = null;
super.release();
}
}
```

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1.21 amqp-client 3.3.4

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1.22 Angular js 1.4.9

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1.24 annogen 0.1.0.wso2v1

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1.25 ant 1.7.0.wso2v1

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1.26 antlr 3.2.0.wso2v1

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*/

```
package org.antlr.codegen;
```

```
import org.antlr.analysis.*;
```

```
import org.antlr.misc.Utils;
```

```
import org.antlr.stringtemplate.StringTemplate;
```

```
import org.antlr.stringtemplate.StringTemplateGroup;
```

```
import java.util.List;
```

```
public class ACyclicDFACodeGenerator {  
    protected CodeGenerator parentGenerator;
```

```
    public ACyclicDFACodeGenerator(CodeGenerator parent) {  
        this.parentGenerator = parent;  
    }
```

```
    public StringTemplate genFixedLookaheadDecision(StringTemplateGroup templates,  
        DFA dfa)  
    {  
        return walkFixedDFAGeneratingStateMachine(templates, dfa, dfa.startState, 1);  
    }
```

```
    protected StringTemplate walkFixedDFAGeneratingStateMachine(  
        StringTemplateGroup templates,  
        DFA dfa,  
        DFAState s,  
        int k)  
    {  
        //System.out.println("walk "+s.stateNumber+" in dfa for decision "+dfa.decisionNumber);  
        if ( s.isAcceptState() ) {  
            StringTemplate dfaST = templates.getInstanceOf("dfaAcceptState");  
            dfaST.setAttribute("alt", Utils.integer(s.getUniquelyPredictedAlt()));  
            return dfaST;  
        }
```

```
        // the default templates for generating a state and its edges
```

```
        // can be an if-then-else structure or a switch
```

```
        String dfaStateName = "dfaState";
```

```
        String dfaLoopbackStateName = "dfaLoopbackState";
```

```
        String dfaOptionalBlockStateName = "dfaOptionalBlockState";
```

```
        String dfaEdgeName = "dfaEdge";
```

```
        if ( parentGenerator.canGenerateSwitch(s) ) {
```

```
            dfaStateName = "dfaStateSwitch";
```

```

dfaLoopbackStateName = "dfaLoopbackStateSwitch";
dfaOptionalBlockStateName = "dfaOptionalBlockStateSwitch";
dfaEdgeName = "dfaEdgeSwitch";
}

StringTemplate dfaST = templates.getInstanceOf(dfaStateName);
if ( dfa.getNFADecisionStartState().decisionStateType==NFASState.LOOPBACK ) {
    dfaST = templates.getInstanceOf(dfaLoopbackStateName);
}
else if ( dfa.getNFADecisionStartState().decisionStateType==NFASState.OPTIONAL_BLOCK_START ) {
    dfaST = templates.getInstanceOf(dfaOptionalBlockStateName);
}
dfaST.setAttribute("k", Utils.integer(k));
dfaST.setAttribute("stateNumber", Utils.integer(s.stateNumber));
dfaST.setAttribute("semPredState",
    Boolean.valueOf(s.isResolvedWithPredicates()));
/*
String description = dfa.getNFADecisionStartState().getDescription();
description = parentGenerator.target.getTargetStringLiteralFromString(description);
//System.out.println("DFA: "+description+" associated with AST "+dfa.getNFADecisionStartState());
if ( description!=null ) {
    dfaST.setAttribute("description", description);
}
*/
int EOTPredicts = NFA.INVALID_ALT_NUMBER;
DFASState EOTTTarget = null;
//System.out.println("DFA state "+s.stateNumber);
for (int i = 0; i < s.getNumberOfTransitions(); i++) {
    Transition edge = (Transition) s.transition(i);
    //System.out.println("edge "+s.stateNumber+"-"+edge.label.toString()+"->" +edge.target.stateNumber);
    if ( edge.label.getAtom()==Label.EOT ) {
        // don't generate a real edge for EOT; track alt EOT predicts
        // generate that prediction in the else clause as default case
        EOTTTarget = (DFASState)edge.target;
        EOTPredicts = EOTTTarget.getUniquelyPredictedAlt();
    }
    /*
    System.out.println("DFA s"+s.stateNumber+" EOT goes to s"+
        edge.target.stateNumber+" predicates alt "+
        EOTPredicts);
    */
    continue;
}
StringTemplate edgeST = templates.getInstanceOf(dfaEdgeName);
// If the template wants all the label values delineated, do that
if ( edgeST.getFormalArgument("labels")!=null ) {
    List labels = edge.label.getSet().toList();
    for (int j = 0; j < labels.size(); j++) {
        Integer vI = (Integer) labels.get(j);

```

```

String label =
    parentGenerator.getTokenTypeAsTargetLabel(vI.intValue());
labels.set(j, label); // rewrite List element to be name
}
edgeST.setAttribute("labels", labels);
}
else { // else create an expression to evaluate (the general case)
edgeST.setAttribute("labelExpr",
    parentGenerator.genLabelExpr(templates,edge,k));
}

// stick in any gated predicates for any edge if not already a pred
if ( !edge.label.isSemanticPredicate() ) {
DFAState target = (DFAState)edge.target;
SemanticContext preds =
    target.getGatedPredicatesInNFAConfigurations();
if ( preds!=null ) {
//System.out.println("preds="+target.getGatedPredicatesInNFAConfigurations());
StringTemplate predST = preds.genExpr(parentGenerator,
    parentGenerator.getTemplates(),
    dfa);
edgeST.setAttribute("predicates", predST);
}
}

StringTemplate targetST =
    walkFixedDFAGeneratingStateMachine(templates,
        dfa,
        (DFAState)edge.target,
        k+1);
edgeST.setAttribute("targetState", targetST);
dfaST.setAttribute("edges", edgeST);
/*
System.out.println("back to DFA "+
    dfa.decisionNumber+"."+s.stateNumber);
*/
}

// HANDLE EOT EDGE
if ( EOTPredicts!=NFA.INVALID_ALT_NUMBER ) {
// EOT unique predicts an alt
dfaST.setAttribute("eotPredictsAlt", Utils.integer(EOTPredicts));
}
else if ( EOTTarget!=null && EOTTarget.getNumberOfTransitions()>0 ) {
// EOT state has transitions so must split on predicates.
// Generate predicate else-if clauses and then generate
// NoViableAlt exception as else clause.
// Note: these predicates emanate from the EOT target state

```

```

// rather than the current DFAState s so the error message
// might be slightly misleading if you are looking at the
// state number. Predicates emanating from EOT targets are
// hoisted up to the state that has the EOT edge.
for (int i = 0; i < EOTTarget.getNumberOfTransitions(); i++) {
    Transition predEdge = (Transition)EOTTarget.transition(i);
    StringTemplate edgeST = templates.getInstanceOf(dfaEdgeName);
    edgeST.setAttribute("labelExpr",
        parentGenerator.genSemanticPredicateExpr(templates,predEdge));
    // the target must be an accept state
    //System.out.println("EOT edge");
    StringTemplate targetST =
        walkFixedDFAGeneratingStateMachine(templates,
            dfa,
            (DFAState)predEdge.target,
            k+1);
    edgeST.setAttribute("targetState", targetST);
    dfaST.setAttribute("edges", edgeST);
}
}
return dfaST;
}
}

```

1.27 ANTLR 2.7.6

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1.29 ANTLR StringTemplate 3.2.1

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

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Version 2, June 1991

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```
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```
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```

```
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```

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JUnit4, parallel JUnit execution for ANT

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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langdetect

<http://code.google.com/p/language-detection/>

/**

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This library contains efficient implementation of LZF compression format,
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Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by
platform backend, but after initial versions has been developed outside of
Ning by supporting community.

Other contributors include:

- * Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- * Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor
fixes; these can be found from file "VERSION.txt" in SCM.

Objenesis

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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=====

```
#!/usr/bin/env bash
```

```
#
```



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#

acquire_rat_jar () {

    URL="http://repo1.maven.org/maven2/org/apache/rat/apache-rat/${RAT_VERSION}/apache-rat-
${RAT_VERSION}.jar"

    JAR="$rat_jar"

    # Download rat launch jar if it hasn't been downloaded yet
    if [ ! -f "$JAR" ]; then
        # Download
        printf "Attempting to fetch rat\n"
        JAR_DL="${JAR}.part"
        if [ $(command -v curl) ]; then
            curl -L --silent "${URL}" > "$JAR_DL" && mv "$JAR_DL" "$JAR"
        elif [ $(command -v wget) ]; then
            wget --quiet "${URL} -O "$JAR_DL" && mv "$JAR_DL" "$JAR"
        else
            printf "You do not have curl or wget installed, please install rat manually.\n"
            exit -1
        fi
    fi

    unzip -tq "$JAR" &> /dev/null
    if [ $? -ne 0 ]; then
        # We failed to download
        rm "$JAR"
        printf "Our attempt to download rat locally to ${JAR} failed. Please install rat manually.\n"
        exit -1
    fi
}

```

```

# Go to the Spark project root directory
FWDIR="$(cd "`dirname "$0""/.."; pwd)"
cd "$FWDIR"

if test -x "$JAVA_HOME/bin/java"; then
    declare java_cmd="$JAVA_HOME/bin/java"
else
    declare java_cmd=java
fi

export RAT_VERSION=0.10
export rat_jar="$FWDIR"/lib/apache-rat-{$RAT_VERSION}.jar
mkdir -p "$FWDIR"/lib

[[ -f "$rat_jar" ]] || acquire_rat_jar || {
    echo "Download failed. Obtain the rat jar manually and place it at $rat_jar"
    exit 1
}

$java_cmd -jar "$rat_jar" -E "$FWDIR"/.rat-excludes -d "$FWDIR" > rat-results.txt

if [ $? -ne 0 ]; then
    echo "RAT exited abnormally"
    exit 1
fi

ERRORS="$(cat rat-results.txt | grep -e "?")"

if test ! -z "$ERRORS"; then
    echo "Could not find Apache license headers in the following files:"
    echo "$ERRORS"
    exit 1
else
    echo -e "RAT checks passed."
fi

```

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A. HISTORY OF THE SOFTWARE

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#

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

#

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)
in Reston, Virginia where he released several versions of the
software.

#

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see <http://www.zope.com>). In 2001, the Python Software
Foundation (PSF, see <http://www.python.org/psf/>) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

#

All Python releases are Open Source (see <http://www.opensource.org> for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

```
#
# Release      Derived   Year   Owner   GPL-
# from
#             compatible? (1)
#
# 0.9.0 thru 1.2      1991-1995 CWI     yes
# 1.3 thru 1.5.2 1.2      1995-1999 CNRI    yes
# 1.6           1.5.2    2000   CNRI    no
# 2.0           1.6      2000   BeOpen.com no
# 1.6.1         1.6      2001   CNRI    yes (2)
# 2.1           2.0+1.6.1 2001   PSF     no
# 2.0.1         2.0+1.6.1 2001   PSF     yes
# 2.1.1         2.1+2.0.1 2001   PSF     yes
# 2.2           2.1.1    2001   PSF     yes
# 2.1.2         2.1.1    2002   PSF     yes
# 2.1.3         2.1.2    2002   PSF     yes
# 2.2.1         2.2      2002   PSF     yes
# 2.2.2         2.2.1    2002   PSF     yes
# 2.2.3         2.2.2    2003   PSF     yes
# 2.3           2.2.2    2002-2003 PSF     yes
# 2.3.1         2.3      2002-2003 PSF     yes
# 2.3.2         2.3.1    2002-2003 PSF     yes
# 2.3.3         2.3.2    2002-2003 PSF     yes
# 2.3.4         2.3.3    2004   PSF     yes
# 2.3.5         2.3.4    2005   PSF     yes
# 2.4           2.3      2004   PSF     yes
# 2.4.1         2.4      2005   PSF     yes
# 2.4.2         2.4.1    2005   PSF     yes
# 2.4.3         2.4.2    2006   PSF     yes
# 2.4.4         2.4.3    2006   PSF     yes
# 2.5           2.4      2006   PSF     yes
# 2.5.1         2.5      2007   PSF     yes
# 2.5.2         2.5.1    2008   PSF     yes
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# 2.6           2.5      2008   PSF     yes
# 2.6.1         2.6      2008   PSF     yes
# 2.6.2         2.6.1    2009   PSF     yes
# 2.6.3         2.6.2    2009   PSF     yes
# 2.6.4         2.6.3    2009   PSF     yes
# 2.6.5         2.6.4    2010   PSF     yes
# 2.7           2.6      2010   PSF     yes
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```
#
# Footnotes:
```

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- javaee_web_services_client_1_2.xsd

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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd

may be obtained from <http://java.sun.com/xml/ns/javaee/>

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1.54 apr 1.4.8 :3.e17

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file_io/unix/mktemp.c, strings/apr_strings.c:

```
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

```
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* cvt - IEEE floating point formatting routines.  
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1.66 AspectJ runtime 1.8.6

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1.67 AspectJ tools 1.7.4

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1.68 AspectJ weaver 1.8.6

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1.69 aspectjweaver 1.8.8

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import org.aspectj.apache.bcel.generic.Type;

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1.70 aspectjweaver 1.6.6

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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1.72 atomikos 3.8.0.wso2v1

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 */
```

```
package com.atomikos.beans;
```

```
import java.lang.reflect.Constructor;
import java.util.HashMap;
import java.util.Map;
```

```
/**
 *
 *
 * A utility class for primitive class manipulation.
 */
```

```
public final class PrimitiveClasses
{

    private static Map map_ = new HashMap();
    //maps primitive classes to wrapper classes
```

```

private static Map numericMap_ = new HashMap();
//contains a map for a numeric primitive class
//the mapped value is a Boolean: True iff the
//class allows decimal values

static {
    map_.put ( Boolean.TYPE , Boolean.class );
    map_.put ( Character.TYPE , Character.class );
    map_.put ( Short.TYPE , Short.class );
    map_.put ( Integer.TYPE , Integer.class );
    map_.put ( Long.TYPE , Long.class );
    map_.put ( Float.TYPE , Float.class );
    map_.put ( Double.TYPE , Double.class );
    map_.put ( Byte.TYPE , Byte.class );
    map_.put ( Void.TYPE , Void.class );

    numericMap_.put ( Short.class , new Boolean ( false ) );
    numericMap_.put ( Integer.class , new Boolean ( false ) );
    numericMap_.put ( Long.class , new Boolean ( false ) );
    numericMap_.put ( Float.class , new Boolean ( true ) );
    numericMap_.put ( Double.class , new Boolean ( true ) );

}

/**
 *Check if a class should be restricted to numeric values.
 *@param clazz The class to test.
 *@return boolean If true then the class allows only numeric values.
 */

public static boolean isNumericClass ( Class clazz )
{
    return numericMap_.containsKey ( clazz );
}

/**
 *Check if a class allows decimal numeric values.
 *@param clazz The class to test.
 *@return boolean If true then the class allows decimal numeric values.
 */

public static boolean isDecimalClass ( Class clazz )
{
    boolean ret = false;

```

```

        Boolean value = ( Boolean ) numericMap_.get ( clazz );
        if ( value != null ) ret = value.booleanValue();

        return ret;
    }

    /**
     *Get the wrapper type for the given primitive.
     *@param primitiveClass The primitive class.
     *@return Class The wrapper, or null if not a primitive.
     */

    public static Class getWrapperClass ( Class primitiveClass )
    {
        return ( Class ) map_.get ( primitiveClass );
    }

    /**
     *Constructs a wrapper object that holds a value
     *for the given primitiveClass, based on the
     *given String value.
     *@param val The String value.
     *@param primitiveClass The class for which the
     *wrapper object should be made.
     *@exception ClassNotPrimitiveException If
     *the supplied class is not recognized as a primitive class.
     *@return Object The wrapper object.
     */

    public static Object createWrapperObject ( String val , Class primitiveClass )
    throws ClassNotPrimitiveException
    {
        Object ret = null;

        Class[] args = new Class[1];
        args[0] = String.class;
        Class wrapperClass = getWrapperClass ( primitiveClass );
        if ( wrapperClass == null )
            throw new ClassNotPrimitiveException ( primitiveClass.getName() );

        try {
            Constructor c = wrapperClass.getConstructor ( args );
            Object[] initArgs = new Object[1];
            initArgs[0] = val;
            if ( c != null )
                ret = c.newInstance ( initArgs );
        }
        catch ( Exception e ) {

```



```

        //e.printStackTrace();
        throw new RuntimeException ( e.getMessage () );
    }

    return ret;
}
}
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 */

package com.atomikos.beans;

/**
 *
 *
 * An exception for the conversion of primitive values to
 * their wrapper objects. Thrown if the associated
 * primitive class is not really a primitive class.
 */

public class ClassNotPrimitiveException
extends Exception
{

    public ClassNotPrimitiveException()

```

```

{
    super();
}

public ClassNotPrimitiveException ( String msg )
{
    super ( msg );
}
}

```

1.73 authenticator 0.7.0.wso2v1

1.74 avahi 0.6.31 :17.el7

1.74.1 Available under license :

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1.104 Batik SVG transcoder classes 1.7

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1.105 Batik utility library 1.7

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1.109 Bouncy Castle CMS and S/MIME API

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1.119 cglib 2.1_3

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1.120 ClassMate 1.1.0

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

1.121 ClassMate 0.8.0

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1.122 classworlds 1.1-alpha-2

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1.128 com.jayway.jsonpath 0.8.1.wso2v1

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```
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 */
package com.jayway.jsonpath.internal.filter;

import com.jayway.jsonpath.spi.JsonProvider;

import java.util.List;
import java.util.Map;
```



```

/**
 * @author Kalle Stenflo
 */
public class HasFieldFilter extends PathTokenFilter {

    public HasFieldFilter(String condition) {
        super(condition);
    }

    @Override
    public Object filter(Object obj, JsonProvider jsonProvider) {

        //[@.isbn]
        List<Object> src = jsonProvider.toList(obj);
        List<Object> result = jsonProvider.createList();

        String trimmedCondition = condition;

        if(condition.contains("["){
            trimmedCondition = trimmedCondition.replace("[", ".");
            trimmedCondition = trimmedCondition.replace("]", "");
        }

        trimmedCondition = trim(trimmedCondition, 5, 2);

        for (Object item : src) {
            if(jsonProvider.isMap(item)){
                Map<String, Object> map = jsonProvider.toMap(item);
                if(map.containsKey(trimmedCondition)){
                    result.add(map);
                }
            }
        }
        return result;
    }

    @Override
    public Object getRef(Object obj, JsonProvider jsonProvider) {
        throw new UnsupportedOperationException();
    }

    @Override
    public boolean isArrayFilter() {
        return true;
    }
}

```

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
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1.166 commons-digester 1.8

1.166.1 Available under license :

```
/* $Id: AbstractRulesImpl.java 471661 2006-11-06 08:09:25Z skitching $
```

```
*
```

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```

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```
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```

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```

```
*/
```

```
package org.apache.commons.digester;
```

```
import java.util.List;
```

```
/**
```

```
* AbstractRuleImpl provides basic services for Rules implementations.
```

```
* Extending this class should make it easier to create a Rules implementation.</p>
```

```
*
```

```
* AbstractRuleImpl manages the Digester
```

```
* and namespaceUri properties.
```

```
* If the subclass overrides { @link #registerRule } (rather than { @link #add }),
```

```
* then the Digester and namespaceURI of the Rule
```

```
* will be set correctly before it is passed to registerRule.
```

```
* The subclass can then perform whatever it needs to do to register the rule.</p>
```



```

*
* @since 1.5
*/

abstract public class AbstractRulesImpl implements Rules {

    // ----- Fields

    /** Digester using this <code>Rules</code> implementation */
    private Digester digester;
    /** Namespace uri to associate with subsequent <code>Rule</code>'s */
    private String namespaceURI;

    // ----- Properties

    /**
     * Return the Digester instance with which this Rules instance is
     * associated.
     */
    public Digester getDigester() {
        return digester;
    }

    /**
     * Set the Digester instance with which this Rules instance is associated.
     *
     * @param digester The newly associated Digester instance
     */
    public void setDigester(Digester digester) {
        this.digester = digester;
    }

    /**
     * Return the namespace URI that will be applied to all subsequently
     * added <code>Rule</code> objects.
     */
    public String getNamespaceURI() {
        return namespaceURI;
    }

    /**
     * Set the namespace URI that will be applied to all subsequently
     * added <code>Rule</code> objects.
     *
     * @param namespaceURI Namespace URI that must match on all
     * subsequently added rules, or <code>null</code> for matching
     * regardless of the current namespace URI
     */
}

```

```

public void setNamespaceURI(String namespaceURI) {
    this.namespaceURI = namespaceURI;
}

// ----- Public Methods

/**
 * Registers a new Rule instance matching the specified pattern.
 * This implementation sets the <code>Digester</code> and the
 * <code>namespaceURI</code> on the <code>Rule</code> before calling { @link #registerRule}.
 *
 * @param pattern Nesting pattern to be matched for this Rule
 * @param rule Rule instance to be registered
 */
public void add(String pattern, Rule rule) {
    // set up rule
    if (this.digester != null) {
        rule.setDigester(this.digester);
    }

    if (this.namespaceURI != null) {
        rule.setNamespaceURI(this.namespaceURI);
    }

    registerRule(pattern, rule);
}

/**
 * Register rule at given pattern.
 * The the Digester and namespaceURI properties of the given <code>Rule</code>
 * can be assumed to have been set properly before this method is called.
 *
 * @param pattern Nesting pattern to be matched for this Rule
 * @param rule Rule instance to be registered
 */
abstract protected void registerRule(String pattern, Rule rule);

/**
 * Clear all existing Rule instance registrations.
 */
abstract public void clear();

/**
 * Return a List of all registered Rule instances that match the specified
 * nesting pattern, or a zero-length List if there are no matches. If more
 * than one Rule instance matches, they <strong>must</strong> be returned

```

```

* in the order originally registered through the <code>add()</code>
* method.
*
* @param pattern Nesting pattern to be matched
*
* @deprecated Call match(namespaceURI,pattern) instead.
*/
public List match(String pattern) {
    return match(namespaceURI, pattern);
}

/**
* Return a List of all registered Rule instances that match the specified
* nesting pattern, or a zero-length List if there are no matches. If more
* than one Rule instance matches, they <strong>must</strong> be returned
* in the order originally registered through the <code>add()</code>
* method.
*
* @param namespaceURI Namespace URI for which to select matching rules,
* or <code>null</code> to match regardless of namespace URI
* @param pattern Nesting pattern to be matched
*/
abstract public List match(String namespaceURI, String pattern);

/**
* Return a List of all registered Rule instances, or a zero-length List
* if there are no registered Rule instances. If more than one Rule
* instance has been registered, they <strong>must</strong> be returned
* in the order originally registered through the <code>add()</code>
* method.
*/
abstract public List rules();
}
/* $Id: SimpleRegexMatcher.java 471661 2006-11-06 08:09:25Z skitching $
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*/
```

```
package org.apache.commons.digester;
```

```
import org.apache.commons.logging.Log;  
import org.apache.commons.logging.LogFactory;
```

```
/**
```

```
 * <p>Simple regex pattern matching algorithm.</p>
```

```
 *
```

```
 * <p>This uses just two wildcards:
```

```
 * <ul>
```

```
 * <li><code>*</code> matches any sequence of none, one or more characters
```

```
 * <li><code>?</code> matches any one character
```

```
 * </ul>
```

```
 * Escaping these wildcards is not supported .</p>
```

```
 *
```

```
 * @since 1.5
```

```
*/
```

```
public class SimpleRegexMatcher extends RegexMatcher {
```

```
    // ----- Fields
```

```
    /** Default log (class wide) */
```

```
    private static final Log baseLog = LogFactory.getLog(SimpleRegexMatcher.class);
```

```
    /** Custom log (can be set per object) */
```

```
    private Log log = baseLog;
```

```
    // ----- Properties
```

```
    /**
```

```
     * Gets the <code>Log</code> implementation.
```

```
     */
```

```
    public Log getLog() {
```

```
        return log;
```

```
    }
```

```
    /**
```

```
     * Sets the current <code>Log</code> implementation used by this class.
```

```
     */
```

```
    public void setLog(Log log) {
```

```
        this.log = log;
```

```

}

// ----- Public Methods

/**
 * Matches using simple regex algorithm.
 *
 *
 * @param basePattern the standard digester path representing the element
 * @param regexPattern the regex pattern the path will be tested against
 * @return true if the given pattern matches the given path
 */
public boolean match(String basePattern, String regexPattern) {
    // check for nulls
    if (basePattern == null || regexPattern == null) {
        return false;
    }
    return match(basePattern, regexPattern, 0, 0);
}

// ----- Implementations Methods

/**
 * Implementation of regex matching algorithm.
 * This calls itself recursively.
 */
private boolean match(String basePattern, String regexPattern, int baseAt, int regexAt) {
    if (log.isTraceEnabled()) {
        log.trace("Base: " + basePattern);
        log.trace("Regex: " + regexPattern);
        log.trace("Base@" + baseAt);
        log.trace("Regex@" + regexAt);
    }

    // check bounds
    if (regexAt >= regexPattern.length()) {
        // maybe we've got a match
        if (baseAt >= basePattern.length()) {
            // ok!
            return true;
        }
        // run out early
        return false;
    } else {
        if (baseAt >= basePattern.length()) {
            // run out early
            return false;
        }
    }
}

```

```

    }
}

// ok both within bounds
char regexCurrent = regexPattern.charAt(regexAt);
switch (regexCurrent) {
    case '*':
        // this is the tricky case
        // check for terminal
        if (++regexAt >= regexPattern.length()) {
            // this matches anything let - so return true
            return true;
        }
        // go through every subsequent apperance of the next character
        // and so if the rest of the regex matches
        char nextRegex = regexPattern.charAt(regexAt);
        if (log.isTraceEnabled()) {
            log.trace("Searching for next " + nextRegex + " char");
        }
        int nextMatch = basePattern.indexOf(nextRegex, baseAt);
        while (nextMatch != -1) {
            if (log.isTraceEnabled()) {
                log.trace("Trying '*' match@" + nextMatch);
            }
            if (match(basePattern, regexPattern, nextMatch, regexAt)) {
                return true;
            }
            nextMatch = basePattern.indexOf(nextRegex, nextMatch + 1);
        }
        log.trace("No matches found.");
        return false;

    case '?':
        // this matches anything
        return match(basePattern, regexPattern, ++baseAt, ++regexAt);

    default:
        if (log.isTraceEnabled()) {
            log.trace("Comparing " + regexCurrent + " to " + basePattern.charAt(baseAt));
        }
        if (regexCurrent == basePattern.charAt(baseAt)) {
            // still got more to go
            return match(basePattern, regexPattern, ++baseAt, ++regexAt);
        }
        return false;
    }
}
}
}

```

1.167 commons-digester 1.8.1.wso2v1

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```
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* limitations under the License.
*/

package org.apache.commons.digester;

import java.util.List;

/**
 * <p><code>AbstractRuleImpl</code> provides basic services for <code>Rules</code> implementations.
 * Extending this class should make it easier to create a <code>Rules</code> implementation.</p>
 *
 * <p><code>AbstractRuleImpl</code> manages the <code>Digester</code>
 * and <code>namespaceUri</code> properties.
 * If the subclass overrides { @link #registerRule } (rather than { @link #add}),
 * then the <code>Digester</code> and <code>namespaceURI</code> of the <code>Rule</code>
 * will be set correctly before it is passed to <code>registerRule</code>.
 * The subclass can then perform whatever it needs to do to register the rule.</p>
 *
 * @since 1.5
 */

abstract public class AbstractRulesImpl implements Rules {

    // ----- Fields
```

```

/** Digester using this <code>Rules</code> implementation */
private Digester digester;
/** Namespace uri to assoicate with subsequent <code>Rule</code>'s */
private String namespaceURI;

// ----- Properties

/**
 * Return the Digester instance with which this Rules instance is
 * associated.
 */
public Digester getDigester() {
    return digester;
}

/**
 * Set the Digester instance with which this Rules instance is associated.
 *
 * @param digester The newly associated Digester instance
 */
public void setDigester(Digester digester) {
    this.digester = digester;
}

/**
 * Return the namespace URI that will be applied to all subsequently
 * added <code>Rule</code> objects.
 */
public String getNamespaceURI() {
    return namespaceURI;
}

/**
 * Set the namespace URI that will be applied to all subsequently
 * added <code>Rule</code> objects.
 *
 * @param namespaceURI Namespace URI that must match on all
 * subsequently added rules, or <code>null</code> for matching
 * regardless of the current namespace URI
 */
public void setNamespaceURI(String namespaceURI) {
    this.namespaceURI = namespaceURI;
}

// ----- Public Methods

/**
 * Registers a new Rule instance matching the specified pattern.

```



```

* This implementation sets the <code>Digester</code> and the
* <code>namespaceURI</code> on the <code>Rule</code> before calling { @link #registerRule}.
*
* @param pattern Nesting pattern to be matched for this Rule
* @param rule Rule instance to be registered
*/
public void add(String pattern, Rule rule) {
    // set up rule
    if (this.digester != null) {
        rule.setDigester(this.digester);
    }

    if (this.namespaceURI != null) {
        rule.setNamespaceURI(this.namespaceURI);
    }

    registerRule(pattern, rule);
}

/**
* Register rule at given pattern.
* The the Digester and namespaceURI properties of the given <code>Rule</code>
* can be assumed to have been set properly before this method is called.
*
* @param pattern Nesting pattern to be matched for this Rule
* @param rule Rule instance to be registered
*/
abstract protected void registerRule(String pattern, Rule rule);

/**
* Clear all existing Rule instance registrations.
*/
abstract public void clear();

/**
* Return a List of all registered Rule instances that match the specified
* nesting pattern, or a zero-length List if there are no matches. If more
* than one Rule instance matches, they <strong>must</strong> be returned
* in the order originally registered through the <code>add()</code>
* method.
*
* @param pattern Nesting pattern to be matched
*
* @deprecated Call match(namespaceURI,pattern) instead.
*/
public List match(String pattern) {

```

```

    return match(namespaceURI, pattern);
}

/**
 * Return a List of all registered Rule instances that match the specified
 * nesting pattern, or a zero-length List if there are no matches. If more
 * than one Rule instance matches, they must be returned
 * in the order originally registered through the add()
 * method.
 *
 * @param namespaceURI Namespace URI for which to select matching rules,
 * or null to match regardless of namespace URI
 * @param pattern Nesting pattern to be matched
 */
abstract public List match(String namespaceURI, String pattern);

/**
 * Return a List of all registered Rule instances, or a zero-length List
 * if there are no registered Rule instances. If more than one Rule
 * instance has been registered, they must be returned
 * in the order originally registered through the add()
 * method.
 */
abstract public List rules();
}
/* $Id: SimpleRegexMatcher.java 471661 2006-11-06 08:09:25Z skitching $
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 * limitations under the License.
 */
package org.apache.commons.digester;

```

```

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

/**
 * <p>Simple regex pattern matching algorithm.</p>
 *
 * <p>This uses just two wildcards:
 * <ul>
 * <li><code>*</code> matches any sequence of none, one or more characters
 * <li><code>?</code> matches any one character
 * </ul>
 * Escaping these wildcards is not supported .</p>
 *
 * @since 1.5
 */

public class SimpleRegexMatcher extends RegexMatcher {

    // ----- Fields

    /** Default log (class wide) */
    private static final Log baseLog = LogFactory.getLog(SimpleRegexMatcher.class);

    /** Custom log (can be set per object) */
    private Log log = baseLog;

    // ----- Properties

    /**
     * Gets the <code>Log</code> implementation.
     */
    public Log getLog() {
        return log;
    }

    /**
     * Sets the current <code>Log</code> implementation used by this class.
     */
    public void setLog(Log log) {
        this.log = log;
    }

    // ----- Public Methods

    /**
     * Matches using simple regex algorithm.
     *
     *
     *

```

```

* @param basePattern the standard digester path representing the element
* @param regexPattern the regex pattern the path will be tested against
* @return true if the given pattern matches the given path
*/
public boolean match(String basePattern, String regexPattern) {
    // check for nulls
    if (basePattern == null || regexPattern == null) {
        return false;
    }
    return match(basePattern, regexPattern, 0, 0);
}

// ----- Implementations Methods

/**
 * Implementation of regex matching algorithm.
 * This calls itself recursively.
 */
private boolean match(String basePattern, String regexPattern, int baseAt, int regexAt) {
    if (log.isTraceEnabled()) {
        log.trace("Base: " + basePattern);
        log.trace("Regex: " + regexPattern);
        log.trace("Base@" + baseAt);
        log.trace("Regex@" + regexAt);
    }

    // check bounds
    if (regexAt >= regexPattern.length()) {
        // maybe we've got a match
        if (baseAt >= basePattern.length()) {
            // ok!
            return true;
        }
        // run out early
        return false;
    } else {
        if (baseAt >= basePattern.length()) {
            // run out early
            return false;
        }
    }

    // ok both within bounds
    char regexCurrent = regexPattern.charAt(regexAt);
    switch (regexCurrent) {
        case '*':
            // this is the tricky case

```

```

// check for terminal
if (++regexAt >= regexPattern.length()) {
    // this matches anything let - so return true
    return true;
}
// go through every subsequent apperance of the next character
// and so if the rest of the regex matches
char nextRegex = regexPattern.charAt(regexAt);
if (log.isTraceEnabled()) {
    log.trace("Searching for next " + nextRegex + " char");
}
int nextMatch = basePattern.indexOf(nextRegex, baseAt);
while (nextMatch != -1) {
    if (log.isTraceEnabled()) {
        log.trace("Trying '*' match@" + nextMatch);
    }
    if (match(basePattern, regexPattern, nextMatch, regexAt)) {
        return true;
    }
    nextMatch = basePattern.indexOf(nextRegex, nextMatch + 1);
}
log.trace("No matches found.");
return false;

case '?':
    // this matches anything
    return match(basePattern, regexPattern, ++baseAt, ++regexAt);

default:
    if (log.isTraceEnabled()) {
        log.trace("Comparing " + regexCurrent + " to " + basePattern.charAt(baseAt));
    }
    if (regexCurrent == basePattern.charAt(baseAt)) {
        // still got more to go
        return match(basePattern, regexPattern, ++baseAt, ++regexAt);
    }
    return false;
}
}
}

```

1.168 commons-email 1.2

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Version 2.0, January 2004

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1.182 copy-jdk-configs 1.2 :1.el7

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1.184 cups 1.6.3 :26.el7

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain

designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs

(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all

subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively

convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.185 Data Mapper for Jackson 1.9.12

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1.186 Data Mapper for Jackson 1.8.5

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```

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```

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1.190 deltarpm 3.6 :3.e17

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1.201 doxia-module-xhtml 1.1.2

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1.202 doxia-site-renderer 1.1.2

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1.203 drools 5.2.1.wso2v1

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- */

```

package org.drools.reteoo;

import java.util.Arrays;

import org.drools.common.AgendaItem;
import org.drools.common.EventFactHandle;
import org.drools.common.InternalFactHandle;
import org.drools.core.util.Entry;
import org.drools.core.util.LeftTupleList;
import org.drools.rule.Declaration;
import org.drools.spi.Activation;
import org.drools.spi.Tuple;

public class LeftTupleImpl
    implements
    Tuple,
    Entry, LeftTuple {
    private static final long serialVersionUID = 510l;

    private int          index;

    private InternalFactHandle handle;

    private LeftTuple    parent;

    private Object       object;

    private RightTuple   blocker;

    private LeftTuple    blockedPrevious;

    private LeftTuple    blockedNext;

    // left and right tuples in parent
    private LeftTuple    leftParent;
    private LeftTuple    leftParentPrevious;
    private LeftTuple    leftParentNext;

    private RightTuple   rightParent;
    private LeftTuple    rightParentPrevious;
    private LeftTuple    rightParentNext;

    // node memory

```

```

private LeftTupleList    memory;
private Entry           next;
private Entry           previous;

// children
private LeftTuple       firstChild;
private LeftTuple       lastChild;

private LeftTupleSink   sink;

public LeftTupleImpl() {
    // constructor needed for serialisation
}

// -----
// Constructors
// -----

public LeftTupleImpl(final InternalFactHandle factHandle,
                    LeftTupleSink sink,
                    boolean leftTupleMemoryEnabled) {
    this.handle = factHandle;

    if ( leftTupleMemoryEnabled ) {
        LeftTuple first = handle.getLastLeftTuple();
        if ( first == null ) {
            // node other LeftTuples, just add.
            handle.setFirstLeftTuple( this );
            handle.setLastLeftTuple( this );
        } else {
            this.leftParentPrevious = handle.getLastLeftTuple();
            this.leftParentPrevious.setLeftParentNext( this );
            handle.setLastLeftTuple( this );
        }
    }
    this.sink = sink;
}

public LeftTupleImpl(final LeftTuple leftTuple,
                    LeftTupleSink sink,
                    boolean leftTupleMemoryEnabled) {
    this.index = leftTuple.getIndex();
    this.parent = leftTuple.getParent();
    this.handle = leftTuple.getHandle();

    if ( leftTupleMemoryEnabled ) {
        this.leftParent = leftTuple;
        if ( leftTuple.getLastChild() != null ) {
            this.leftParentPrevious = leftTuple.getLastChild();
        }
    }
}

```

```

        this.leftParentPrevious.setLeftParentNext( this );
    } else {
        leftTuple.setFirstChild( this );
    }
    leftTuple.setLastChild( this );
}

this.sink = sink;
}

public LeftTupleImpl(final LeftTuple leftTuple,
                    RightTuple rightTuple,
                    LeftTupleSink sink) {
    this.index = leftTuple.getIndex() + 1;
    this.parent = leftTuple;
    this.handle = rightTuple.getFactHandle();

    this.leftParent = leftTuple;
    // insert at the end f the list
    if ( leftTuple.getLastChild() != null ) {
        this.leftParentPrevious = leftTuple.getLastChild();
        this.leftParentPrevious.setLeftParentNext( this );
    } else {
        leftTuple.setFirstChild( this );
    }
    leftTuple.setLastChild( this );

    // insert at the end of the list
    if ( rightTuple.lastChild != null ) {
        this.rightParentPrevious = rightTuple.lastChild;
        this.rightParentPrevious.setRightParentNext( this );
    } else {
        rightTuple.firstChild = this;
    }
    rightTuple.lastChild = this;
    this.sink = sink;
}

public LeftTupleImpl(final LeftTuple leftTuple,
                    final RightTuple rightTuple,
                    final LeftTupleSink sink,
                    final boolean leftTupleMemoryEnabled) {
    this( leftTuple,
          rightTuple,
          null,
          null,
          sink,
          leftTupleMemoryEnabled );
}

```

```

}

public LeftTupleImpl(final LeftTuple leftTuple,
    final RightTuple rightTuple,
    final LeftTuple currentLeftChild,
    final LeftTuple currentRightChild,
    final LeftTupleSink sink,
    final boolean leftTupleMemoryEnabled) {
this.handle = rightTuple.getFactHandle();
this.index = leftTuple.getIndex() + 1;
this.parent = leftTuple;

if ( leftTupleMemoryEnabled ) {
    this.leftParent = leftTuple;
    this.rightParent = rightTuple;
    if( currentLeftChild == null ) {
        // insert at the end of the list
        if ( leftTuple.getLastChild() != null ) {
            this.leftParentPrevious = leftTuple.getLastChild();
            this.leftParentPrevious.setLeftParentNext( this );
        } else {
            leftTuple.setFirstChild( this );
        }
        leftTuple.setLastChild( this );
    } else {
        // insert before current child
        this.leftParentNext = currentLeftChild;
        this.leftParentPrevious = currentLeftChild.getLeftParentPrevious();
        currentLeftChild.setLeftParentPrevious( this );
        if( this.leftParentPrevious == null ) {
            this.leftParent.setFirstChild( this );
        } else {
            this.leftParentPrevious.setLeftParentNext( this );
        }
    }
}

if( currentRightChild == null ) {
    // insert at the end of the list
    if ( rightTuple.lastChild != null ) {
        this.rightParentPrevious = rightTuple.lastChild;
        this.rightParentPrevious.setRightParentNext( this );
    } else {
        rightTuple.firstChild = this;
    }
    rightTuple.lastChild = this;
} else {
    // insert before current child
    this.rightParentNext = currentRightChild;
}
}

```

```

        this.rightParentPrevious = currentRightChild.getRightParentPrevious();
        currentRightChild.setRightParentPrevious( this );
        if( this.rightParentPrevious == null ) {
            this.rightParent.firstChild = this;
        } else {
            this.rightParentPrevious.setRightParentNext( this );
        }
    }
}

this.sink = sink;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#reAdd()
 */
public void reAdd() {
    LeftTuple first = handle.getLastLeftTuple();
    if ( first == null ) {
        // node other LeftTuples, just add.
        handle.setFirstLeftTuple( this );
        handle.setLastLeftTuple( this );
    } else {

        handle.getLastLeftTuple().setLeftParentNext( this );
        this.leftParentPrevious = handle.getLastLeftTuple();
        handle.setLastLeftTuple( this );
    }
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#reAddLeft()
 */
public void reAddLeft() {
    // The parent can never be the FactHandle (root LeftTuple) as that is handled by reAdd()
    // make sure we aren't already at the end
    if ( this.leftParentNext != null ) {
        if ( this.leftParentPrevious != null ) {
            // remove the current LeftTuple from the middle of the chain
            this.leftParentPrevious.setLeftParentNext( this.leftParentNext );
            this.leftParentNext.setLeftParentPrevious( this.leftParentPrevious );
        } else {
            if( this.leftParent.getFirstChild() == this ) {
                // remove the current LeftTuple from start start of the chain
                this.leftParent.setFirstChild( this.leftParentNext );
            }
            this.leftParentNext.setLeftParentPrevious( null );
        }
    }
}

```

```

        // re-add to end
        this.leftParentPrevious = this.leftParent.getLastChild();
        this.leftParentPrevious.setLeftParentNext( this );
        this.leftParent.setLastChild( this );
        this.leftParentNext = null;
    }
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#reAddRight()
 */
public void reAddRight() {
    // make sure we aren't already at the end
    if ( this.rightParentNext != null ) {
        if ( this.rightParentPrevious != null ) {
            // remove the current LeftTuple from the middle of the chain
            this.rightParentPrevious.setRightParentNext( this.rightParentNext );
            this.rightParentNext.setRightParentPrevious( this.rightParentPrevious );
        } else {
            if( this.rightParent.firstChild == this ) {
                // remove the current LeftTuple from the start of the chain
                this.rightParent.firstChild = this.rightParentNext;
            }
            this.rightParentNext.setRightParentPrevious( null );
        }
        // re-add to end
        this.rightParentPrevious = this.rightParent.lastChild;
        this.rightParentPrevious.setRightParentNext( this );
        this.rightParent.lastChild = this;
        this.rightParentNext = null;
    }
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#unlinkFromLeftParent()
 */
public void unlinkFromLeftParent() {
    LeftTuple previousParent = this.leftParentPrevious;
    LeftTuple nextParent = this.leftParentNext;

    if ( previousParent != null && nextParent != null ) {
        //remove from middle
        this.leftParentPrevious.setLeftParentNext( nextParent );
        this.leftParentNext.setLeftParentPrevious( previousParent );
    } else if ( nextParent != null ) {
        //remove from first
        if ( this.leftParent != null ) {
            this.leftParent.setFirstChild( nextParent );
        }
    }
}

```



```

    } else {
        // This is relevant to the root node and only happens at rule removal time
        this.handle.setFirstLeftTuple( nextParent );
    }
    nextParent.setLeftParentPrevious( null );
} else if ( previousParent != null ) {
    //remove from end
    if ( this.leftParent != null ) {
        this.leftParent.setLastChild( previousParent );
    } else {
        // relevant to the root node, as here the parent is the FactHandle, only happens at rule removal time
        this.handle.setLastLeftTuple( previousParent );
    }
    previousParent.setLeftParentNext( null );
} else {
    // single remaining item, no previous or next
    if( leftParent != null ) {
        this.leftParent.setFirstChild( null );
        this.leftParent.setLastChild( null );
    } else {
        // it is a root tuple - only happens during rule removal
        this.handle.setFirstLeftTuple( null );
        this.handle.setLastLeftTuple( null );
    }
}

this.leftParent = null;
this.leftParentPrevious = null;
this.leftParentNext = null;
//
this.blocker = null;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#unlinkFromRightParent()
 */
public void unlinkFromRightParent() {
    if ( this.rightParent == null ) {
        // no right parent;
        return;
    }

    LeftTuple previousParent = this.rightParentPrevious;
    LeftTuple nextParent = this.rightParentNext;

    if ( previousParent != null && nextParent != null ) {
        // remove from middle
        this.rightParentPrevious.setRightParentNext( this.rightParentNext );
    }
}

```

```

        this.rightParentNext.setRightParentPrevious( this.rightParentPrevious );
    } else if ( nextParent != null ) {
        // remove from the start
        this.rightParent.firstChild = nextParent;
        nextParent.setRightParentPrevious( null );
    } else if ( previousParent != null ) {
        // remove from end
        this.rightParent.lastChild = previousParent;
        previousParent.setRightParentNext( null );
    } else {
        // single remaining item, no previous or next
        this.rightParent.firstChild = null;
        this.rightParent.lastChild = null;
    }

    this.blocker = null;

    this.rightParent = null;
    this.rightParentPrevious = null;
    this.rightParentNext = null;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getIndex()
 */
public int getIndex() {
    return this.index;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getLeftTupleSink()
 */
public LeftTupleSink getLeftTupleSink() {
    return sink;
}

/* Had to add the set method because sink adapters must override
 * the tuple sink set when the tuple was created.
 */
/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#setLeftTupleSink(org.drools.reteoo.LeftTupleSink)
 */
public void setLeftTupleSink( LeftTupleSink sink ) {
    this.sink = sink;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getLeftParent()

```

```

*/
public LeftTuple getLeftParent() {
    return leftParent;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#setLeftParent(org.drools.reteoo.LeftTuple)
 */
public void setLeftParent(LeftTuple leftParent) {
    this.leftParent = leftParent;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getLeftParentPrevious()
 */
public LeftTuple getLeftParentPrevious() {
    return leftParentPrevious;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#setLeftParentPrevious(org.drools.reteoo.LeftTuple)
 */
public void setLeftParentPrevious(LeftTuple leftParentLeft) {
    this.leftParentPrevious = leftParentLeft;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getLeftParentNext()
 */
public LeftTuple getLeftParentNext() {
    return leftParentNext;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#setLeftParentNext(org.drools.reteoo.LeftTuple)
 */
public void setLeftParentNext(LeftTuple leftParentright) {
    this.leftParentNext = leftParentright;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getRightParent()
 */
public RightTuple getRightParent() {
    return rightParent;
}

/* (non-Javadoc)

```

```

* @see org.drools.reteoo.LeftTuple#setRightParent(org.drools.reteoo.RightTuple)
*/
public void setRightParent(RightTuple rightParent) {
    this.rightParent = rightParent;
}

/* (non-Javadoc)
* @see org.drools.reteoo.LeftTuple#getRightParentPrevious()
*/
public LeftTuple getRightParentPrevious() {
    return rightParentPrevious;
}

/* (non-Javadoc)
* @see org.drools.reteoo.LeftTuple#setRightParentPrevious(org.drools.reteoo.LeftTuple)
*/
public void setRightParentPrevious(LeftTuple rightParentLeft) {
    this.rightParentPrevious = rightParentLeft;
}

/* (non-Javadoc)
* @see org.drools.reteoo.LeftTuple#getRightParentNext()
*/
public LeftTuple getRightParentNext() {
    return rightParentNext;
}

/* (non-Javadoc)
* @see org.drools.reteoo.LeftTuple#setRightParentNext(org.drools.reteoo.LeftTuple)
*/
public void setRightParentNext(LeftTuple rightParentRight) {
    this.rightParentNext = rightParentRight;
}

// public void setBetaChildren(LeftTuple leftTuple) {
//     this.firstChild = leftTuple;
// }
//
// public LeftTuple getBetaChildren() {
//     return this.firstChild;
// }

/* (non-Javadoc)
* @see org.drools.reteoo.LeftTuple#get(int)
*/
public InternalFactHandle get(final int index) {
    LeftTuple entry = this;
    while ( entry.getIndex() != index ) {

```

```

        entry = entry.getParent();
    }
    return entry.getHandle();
}

public void setFactHandle(InternalFactHandle handle) {
    this.handle = handle;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getMemory()
 */
public LeftTupleList getMemory() {
    return this.memory;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#setMemory(org.drools.core.util.LeftTupleList)
 */
public void setMemory(LeftTupleList memory) {
    this.memory = memory;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getPrevious()
 */
public Entry getPrevious() {
    return previous;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#setPrevious(org.drools.core.util.Entry)
 */
public void setPrevious(Entry previous) {
    this.previous = previous;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#setNext(org.drools.core.util.Entry)
 */
public void setNext(final Entry next) {
    this.next = next;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getNext()
 */
public Entry getNext() {

```

```

    return this.next;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getLastHandle()
 */
public InternalFactHandle getLastHandle() {
    return this.handle;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#get(org.drools.rule.Declaration)
 */
public InternalFactHandle get(final Declaration declaration) {
    return get( declaration.getPattern().getOffset() );
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getFactHandles()
 */
public InternalFactHandle[] getFactHandles() {
    InternalFactHandle[] handles = new InternalFactHandle[this.index + 1];
    LeftTuple entry = this;
    int i = 0;
    while ( entry != null ) {
        handles[i++] = entry.getHandle();
        entry = entry.getParent();
    }
    return handles;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#toFactHandles()
 */
public InternalFactHandle[] toFactHandles() {
    InternalFactHandle[] handles = new InternalFactHandle[this.index + 1];
    LeftTuple entry = this;

    while ( entry != null ) {
        handles[entry.getIndex()] = entry.getHandle();
        entry = entry.getParent();
    }
    return handles;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#setBlocker(org.drools.reteoo.RightTuple)
 */
public void setBlocker(RightTuple blocker) {

```

```

    this.blocker = blocker;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getBlocker()
 */
public RightTuple getBlocker() {
    return this.blocker;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getBlockedPrevious()
 */
public LeftTuple getBlockedPrevious() {
    return this.blockedPrevious;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#setBlockedPrevious(org.drools.reteoo.LeftTuple)
 */
public void setBlockedPrevious(LeftTuple blockerPrevious) {
    this.blockedPrevious = blockerPrevious;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getBlockedNext()
 */
public LeftTuple getBlockedNext() {
    return this.blockedNext;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#setBlockedNext(org.drools.reteoo.LeftTuple)
 */
public void setBlockedNext(LeftTuple blockerNext) {
    this.blockedNext = blockerNext;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getObject()
 */
public Object getObject() {
    return this.object;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#setObject(java.lang.Object)
 */

```

```

public void setObject(final Object object) {
    this.object = object;
}

// public int hashCode() {
//     return this.hashCode();
// }

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#toString()
 */
public String toString() {
    final StringBuilder buffer = new StringBuilder();

    LeftTuple entry = this;
    while ( entry != null ) {
        //buffer.append( entry.handle );
        buffer.append(entry.getHandle()).append("\n");
        entry = entry.getParent();
    }
    return buffer.toString();
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#hashCode()
 */
public int hashCode() {
    return this.handle.hashCode();
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#equals(org.drools.reteoo.LeftTuple)
 */
public boolean equals(final LeftTuple other) {
    // we know the object is never null and always of the type LeftTuple
    if ( other == this ) {
        return true;
    } else if( other == null ) {
        return false;
    }

    // A LeftTuple is only the same if it has the same hashCode, factId and parent
    if ( this.hashCode() != other.hashCode() ) {
        return false;
    }

    if ( this.handle != other.getHandle() ) {
        return false;
    }
}

```



```

    }

//    if ( this.sink.getId() != other.sink.getId() ) {
//        return false;
//    }
//
//    if ( this.index != other.index ) {
//        return false;
//    }

    if ( this.parent == null ) {
        return (other.getParent() == null);
    } else {
        return this.parent.equals( other.getParent() );
    }
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#equals(java.lang.Object)
 */
public boolean equals(final Object object) {
    // we know the object is never null and always of the type ReteTuple
    return equals( (LeftTuple) object );
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#size()
 */
public int size() {
    return this.index + 1;
}

public InternalFactHandle getHandle() {
    return handle;
}

public void setHandle(InternalFactHandle handle) {
    this.handle = handle;
}

public LeftTuple getFirstChild() {
    return firstChild;
}

public void setFirstChild(LeftTuple firstChild) {
    this.firstChild = firstChild;
}

```

```

}

public LeftTuple getLastChild() {
    return lastChild;
}

public void setLastChild(LeftTuple lastChild) {
    this.lastChild = lastChild;
}

public LeftTupleSink getSink() {
    return sink;
}

public void setSink(LeftTupleSink sink) {
    this.sink = sink;
}

public void setIndex(int index) {
    this.index = index;
}

public void setParent(LeftTuple parent) {
    this.parent = parent;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getSubTuple(int)
 */
public LeftTuple getSubTuple(final int elements) {
    LeftTuple entry = this;
    if ( elements < this.size() ) {
        final int lastindex = elements - 1;

        while ( entry.getIndex() != lastindex ) {
            entry = entry.getParent();
        }
    }
    return entry;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#toObjectArray()
 */
public Object[] toObjectArray() {
    Object[] objects = new Object[this.index + 1];
    LeftTuple entry = this;
    while ( entry != null ) {

```

```

        Object object = entry.getLastHandle().getObject();
        objects[entry.getIndex()] = object;
        entry = entry.getParent();
    }
    return objects;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#getParent()
 */
public LeftTuple getParent() {
    return parent;
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#toTupleTree(int)
 */
public String toTupleTree(int indent) {
    StringBuilder buf = new StringBuilder();
    char[] spaces = new char[indent];
    Arrays.fill( spaces, ' ' );
    String istr = new String( spaces );
    buf.append( istr );
    buf.append( this.toExternalString() );
    buf.append( "\n" );
    for( LeftTuple leftTuple = this.firstChild; leftTuple != null; leftTuple = leftTuple.getLeftParentNext() ) {
        buf.append( leftTuple.toTupleTree( indent+4 ) );
    }
    return buf.toString();
}

private String toExternalString() {
    StringBuilder builder = new StringBuilder();
    builder.append( String.format( "%08X", System.identityHashCode( this ) ) ).append( ":" );
    int[] ids = new int[this.index+1];
    LeftTuple entry = this;
    while( entry != null ) {
        ids[entry.getIndex()] = entry.getLastHandle().getId();
        entry = entry.getParent();
    }
    builder.append( Arrays.toString( ids ) )
        .append( " activation=" )
        .append( this.object != null ? this.object : "null" )
        .append( " sink=" )
        .append( this.sink.getClass().getSimpleName() )
        .append( "(" ).append( sink.getId() ).append( ")" );
    return builder.toString();
}

```

```

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#increaseActivationCountForEvents()
 */
public void increaseActivationCountForEvents() {
    for ( LeftTuple entry = this; entry != null; entry = entry.getParent() ) {
        if( entry.getLastHandle().isEvent() ) {
            ((EventFactHandle)entry.getLastHandle()).increaseActivationsCount();
        }
    }
}

/* (non-Javadoc)
 * @see org.drools.reteoo.LeftTuple#decreaseActivationCountForEvents()
 */
public void decreaseActivationCountForEvents() {
    for ( LeftTuple entry = this; entry != null; entry = entry.getParent() ) {
        if( entry.getLastHandle().isEvent() ) {
            ((EventFactHandle)entry.getLastHandle()).decreaseActivationsCount();
        }
    }
}

}
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 */

package org.drools.reteoo;

import java.io.Externalizable;
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;

import org.drools.InitialFact;

```

```

/**
 * We dont want users to be able to instantiate InitialFact so we expose it as
 * an interface and make the class and its constructor package protected
 */
public final class InitialFactImpl
    implements
    InitialFact,
    Externalizable {
    private static final InitialFact INSTANCE = new InitialFactImpl();

    private final int        hashCode = "InitialFactImpl".hashCode();

    public static InitialFact getInstance() {
        return InitialFactImpl.INSTANCE;
    }

    public InitialFactImpl() {
    }

    public void readExternal(ObjectInput in) throws IOException,
        ClassNotFoundException {
    }

    public void writeExternal(ObjectOutput out) throws IOException {
    }

    public int hashCode() {
        return this.hashCode;
    }

    public boolean equals(final Object object) {
        if ( this == object ) {
            return true;
        }

        if ( object == null || !(object instanceof InitialFactImpl) ) {
            return false;
        }

        return true;
    }
}
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```

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*/

```
package org.drools.reteoo;
```

```
import java.io.Externalizable;  
import java.io.IOException;  
import java.io.ObjectInput;  
import java.io.ObjectOutput;  
import java.util.concurrent.atomic.AtomicInteger;
```

```
import org.drools.RuntimeDroolsException;  
import org.drools.common.InternalRuleBase;  
import org.drools.facttemplates.FactTemplate;  
import org.drools.facttemplates.FactTemplateObjectType;  
import org.drools.reteoo.builder.BuildContext;  
import org.drools.reteoo.builder.PatternBuilder;  
import org.drools.rule.EntryPoint;  
import org.drools.rule.TypeDeclaration;  
import org.drools.spi.ObjectType;
```

```
public class FactTemplateTypeConf  
    implements  
    ObjectTypeConf,  
    Externalizable {
```

```
    private static final long serialVersionUID = 510L;
```

```
    private FactTemplate    factTemplate;  
    private ObjectTypeNode  concreteObjectTypeNode;  
    private ObjectTypeNode[] cache;
```

```
    private boolean        tmsEnabled;
```

```
    EntryPoint entryPoint;
```

```
    public FactTemplateTypeConf() {  
    }
```

```

public FactTemplateTypeConf(final EntryPoint entryPoint,
                           final FactTemplate factTemplate,
                           final InternalRuleBase ruleBase) {
    this.factTemplate = factTemplate;
    this.entryPoint = entryPoint;
    ObjectType objectType = new FactTemplateObjectType( factTemplate );
    this.concreteObjectTypeNode = (ObjectTypeNode) ruleBase.getRete().getObjectTypeNodes( entryPoint ).get(
objectType );
    if ( this.concreteObjectTypeNode == null ) {
        BuildContext context = new BuildContext( ruleBase,
                                                ((ReteooRuleBase)
ruleBase.getRete().getRuleBase()).getReteooBuilder().getIdGenerator() );
        if ( context.getRuleBase().getConfiguration().isSequential() ) {
            // We are in sequential mode, so no nodes should have memory
            context.setTupleMemoryEnabled( false );
            context.setObjectTypeNodeMemoryEnabled( false );
        } else {
            context.setTupleMemoryEnabled( true );
            context.setObjectTypeNodeMemoryEnabled( true );
        }
        // there must exist an ObjectTypeNode for this concrete class
        this.concreteObjectTypeNode = PatternBuilder.attachObjectTypeNode( context,
                                                                            objectType );
    }
    this.cache = new ObjectTypeNode[]{ this.concreteObjectTypeNode };
}

public void readExternal(ObjectInput in) throws IOException,
                    ClassNotFoundException {
    factTemplate = (FactTemplate) in.readObject();
    concreteObjectTypeNode = (ObjectTypeNode) in.readObject();
    cache = (ObjectTypeNode[]) in.readObject();
}

public void writeExternal(ObjectOutput out) throws IOException {
    out.writeObject( factTemplate );
    out.writeObject( concreteObjectTypeNode );
    out.writeObject( cache );
}

public ObjectTypeNode getConcreteObjectTypeNode() {
    return this.concreteObjectTypeNode;
}

public ObjectTypeNode[] getObjectTypeNodes() {
    if ( this.cache == null ) {
        this.cache = new ObjectTypeNode[]{ this.concreteObjectTypeNode };
    }
}

```

```

    }
    return this.cache;
}

public Object getShadow(Object fact) throws RuntimeDroolsException {
    return null;
}

public boolean isShadowEnabled() {
    return false;
}

public boolean isAssignableFrom(Object object) {
    return this.factTemplate.equals( object );
}

public void resetCache() {
    this.cache = null;
}

public boolean isActive() {
    return true;
}

public boolean isEvent() {
    return false;
}

public TypeDeclaration getTypeDeclaration() {
    return null;
}

public boolean isDynamic() {
    return false;
}

public boolean isTMSEnabled() {
    return this.tmsEnabled;
}

public void enableTMS() {
    this.tmsEnabled = true;
}

public EntryPoint getEntryPoint() {
    return this.entryPoint;
}

```



```

}
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 */

package org.drools.builder.conf.impl;

import org.drools.builder.DecisionTableConfiguration;
import org.drools.builder.DecisionTableInputType;

public class DecisionTableConfigurationImpl implements DecisionTableConfiguration {

    private DecisionTableInputType inputType;

    private String worksheetName;

    public DecisionTableConfigurationImpl() {

    }

    public void setInputType(DecisionTableInputType inputType) {
        this.inputType = inputType;
    }

    public DecisionTableInputType getInputType() {
        return this.inputType;
    }

    public void setWorksheetName(String worksheetName) {
        this.worksheetName = worksheetName;
    }

    public String getWorksheetName() {
        return this.worksheetName;
    }
}

```

```

}
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 */

package org.drools.builder.conf.impl;

import java.util.ArrayList;
import java.util.List;

import org.drools.builder.DecisionTableConfiguration;
import org.drools.builder.DecisionTableInputType;
import org.drools.builder.JaxbConfiguration;

import com.sun.tools.xjc.Options;

public class JaxbConfigurationImpl implements JaxbConfiguration {

    private Options xjcOpts;
    private String systemId;

    private List<String> classes;

    public JaxbConfigurationImpl(Options xjcOpts,
                                String systemId) {
        this.xjcOpts = xjcOpts;
        this.systemId = systemId;
        this.classes = new ArrayList<String>();
    }

    public Options getXjcOpts() {
        return xjcOpts;
    }
}

```

```

public String getSystemId() {
    return systemId;
}

public List<String> getClasses() {
    return classes;
}

public void setClasses(List<String> classes) {
    this.classes = classes;
}

}
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 */

package org.drools.lang.descr;

public class FieldTemplateDescr extends BaseDescr {

    private static final long serialVersionUID = 5101;
    private String      name;
    private String      classType;

    public FieldTemplateDescr() {
        this( null,
            null );
    }

    public FieldTemplateDescr(final String name,
                              final String type) {
        super();
        this.name = name;
    }

```

```

        this.classType = type;
    }

    public String getName() {
        return this.name;
    }

    public String getClassType() {
        return this.classType;
    }

    /**
     * @param classType the classType to set
     */
    public void setClassType(final String classType) {
        this.classType = classType;
    }

    /**
     * @param name the name to set
     */
    public void setName(final String name) {
        this.name = name;
    }
}

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 */

package org.drools.lang.descr;

import java.util.ArrayList;
import java.util.List;

public class FactTemplateDescr extends BaseDescr {

```

```

private static final long serialVersionUID = 5101;

String      name;
List        fields      = new ArrayList( 1 );

public FactTemplateDescr(final String name) {
    this.name = name;
}

public void addFieldTemplate(final FieldTemplateDescr fieldTemplate) {
    this.fields.add( fieldTemplate );
}

public List getFields() {
    return this.fields;
}

public String getName() {
    return this.name;
}

}
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 */

package org.drools.lang.api.impl;

import org.drools.lang.api.CollectDescrBuilder;
import org.drools.lang.api.DescrBuilder;
import org.drools.lang.api.PatternDescrBuilder;
import org.drools.lang.descr.CollectDescr;

/**
 * An implementation for the CollectDescrBuilder
 */

```

```

public class CollectDescrBuilderImpl<P extends DescrBuilder< ?, ? >> extends BaseDescrBuilderImpl<P,
CollectDescr>
implements
CollectDescrBuilder<P> {

public CollectDescrBuilderImpl(P parent) {
super( parent, new CollectDescr() );
}

/**
 * {@inheritDoc}
 */
public PatternDescrBuilder<CollectDescrBuilder<P>> pattern( String type ) {
PatternDescrBuilder<CollectDescrBuilder<P>> pattern = new
PatternDescrBuilderImpl<CollectDescrBuilder<P>>( this,
type );

descr.setInputPattern( pattern.getDescr() );
return pattern;
}

/**
 * {@inheritDoc}
 */
public PatternDescrBuilder<CollectDescrBuilder<P>> pattern() {
PatternDescrBuilder<CollectDescrBuilder<P>> pattern = new
PatternDescrBuilderImpl<CollectDescrBuilder<P>>( this );
descr.setInputPattern( pattern.getDescr() );
return pattern;
}

}
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 */

package org.drools.lang.api.impl;

```

```

import org.drools.lang.api.DescrBuilder;
import org.drools.lang.descr.BaseDescr;

/**
 * A base class for all DescrBuilders
 */
public class BaseDescrBuilderImpl<P extends DescrBuilder<?,?>, T extends BaseDescr>
    implements
    DescrBuilder<P, T> {

    protected T descr;
    protected P parent;

    protected BaseDescrBuilderImpl(final P parent,
                                    final T descr) {
        this.parent = parent;
        this.descr = descr;
    }

    public DescrBuilder<P, T> startLocation( int line,
                                             int column ) {
        descr.setLocation( line,
                           column );
        return this;
    }

    public DescrBuilder<P, T> endLocation( int line,
                                           int column ) {
        descr.setEndLocation( line,
                               column );
        return this;
    }

    public DescrBuilder<P, T> startCharacter( int offset ) {
        descr.setStartCharacter( offset );
        return this;
    }

    public DescrBuilder<P, T> endCharacter( int offset ) {
        descr.setEndCharacter( offset );
        return this;
    }

    public T getDescr() {
        return descr;
    }
}

```

```

    public P end() {
        return parent;
    }

}

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 */

package org.drools.lang.api.impl;

import java.util.List;

import org.drools.lang.api.BehaviorDescrBuilder;
import org.drools.lang.api.PatternDescrBuilder;
import org.drools.lang.descr.BehaviorDescr;

/**
 * A descr builder implementation for pattern behaviors
 */
public class BehaviorDescrBuilderImpl<P extends PatternDescrBuilder< ? >> extends BaseDescrBuilderImpl<P,
BehaviorDescr>
    implements
    BehaviorDescrBuilder<P> {

    protected BehaviorDescrBuilderImpl(P parent) {
        super( parent, new BehaviorDescr() );
        this.parent.getDescr().addBehavior( descr );
    }

    public BehaviorDescrBuilder<P> type( String type,
        String subtype ) {
        descr.setType( type );
        descr.setSubType( subtype );
        return this;
    }
}

```



```

    public BehaviorDescrBuilder<P> parameters( List<String> params ) {
        descr.setParameters( params );
        return this;
    }
}
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*/

package org.drools.lang.api.impl;

import org.drools.lang.api.DescrBuilder;
import org.drools.lang.api.ForallDescrBuilder;
import org.drools.lang.api.PatternDescrBuilder;
import org.drools.lang.descr.ForallDescr;

/**
* An implementation for the CEDescrBuilder
*/
public class ForallDescrBuilderImpl<P extends DescrBuilder< ?, ? >> extends BaseDescrBuilderImpl<P,
ForallDescr>
    implements
    ForallDescrBuilder<P> {

    public ForallDescrBuilderImpl(P parent) {
        super( parent, new ForallDescr() );
    }

    /**
    * {@inheritDoc}
    */
    public PatternDescrBuilder<ForallDescrBuilder<P>> pattern( String type ) {
        PatternDescrBuilder<ForallDescrBuilder<P>> pattern = new
        PatternDescrBuilderImpl<ForallDescrBuilder<P>>( this,
                                                                    type );
    }
}

```

```

        descr.addDescr( pattern.getDescr() );
        return pattern;
    }

    /**
     * {@inheritDoc}
     */
    public PatternDescrBuilder<ForallDescrBuilder<P>> pattern() {
        PatternDescrBuilder<ForallDescrBuilder<P>> pattern = new
PatternDescrBuilderImpl<ForallDescrBuilder<P>>( this );
        descr.addDescr( pattern.getDescr() );
        return pattern;
    }

    public P end() {
        return parent;
    }

}

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 */

package org.drools.lang.api.impl;

import org.drools.lang.api.AnnotationDescrBuilder;
import org.drools.lang.api.CEDescrBuilder;
import org.drools.lang.api.PackageDescrBuilder;
import org.drools.lang.api.QueryDescrBuilder;
import org.drools.lang.descr.AndDescr;
import org.drools.lang.descr.QueryDescr;

/**
 * A descr builder for queries
 */
public class QueryDescrBuilderImpl extends BaseDescrBuilderImpl<PackageDescrBuilder, QueryDescr>

```

```

implements
QueryDescrBuilder {

protected QueryDescrBuilderImpl( PackageDescrBuilder parent ) {
    super( parent, new QueryDescr() );
}

public AnnotationDescrBuilder<QueryDescrBuilder> newAnnotation( String name ) {
    AnnotationDescrBuilder<QueryDescrBuilder> annotation = new
AnnotationDescrBuilderImpl<QueryDescrBuilder>( this, name );
    descr.addAnnotation( annotation.getDescr() );
    return annotation;
}

public QueryDescrBuilder name( String name ) {
    descr.setName( name );
    return this;
}

public CEDescrBuilder<QueryDescrBuilder, AndDescr> lhs() {
    CEDescrBuilder<QueryDescrBuilder, AndDescr> ce = new CEDescrBuilderImpl<QueryDescrBuilder,
AndDescr>( this, new AndDescr() );
    descr.setLhs( ce.getDescr() );
    return ce;
}

public QueryDescrBuilder parameter( String type,
                                   String variable ) {
    descr.addParameter( type,
                       variable );
    return this;
}

}

```

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1.205 ehcache 1.5.0.wso2v3

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Skickat: den 15 november 2004 07:30

Till: sales@orionserver.com

mne: Use of Orion for running tests in ehcache

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1.209 el-impl 2.2.0.wso2v1

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 */
package com.sun.el.lang;

import java.io.Externalizable;
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;
import java.util.HashMap;
import java.util.Map;

import javax.el.ValueExpression;
import javax.el.VariableMapper;
```

```

public class VariableMapperImpl extends VariableMapper implements Externalizable {

    private static final long serialVersionUID = 1L;

    private Map vars = new HashMap();

    public VariableMapperImpl() {
        super();
    }

    public ValueExpression resolveVariable(String variable) {
        return (ValueExpression) this.vars.get(variable);
    }

    public ValueExpression setVariable(String variable,
        ValueExpression expression) {
        return (ValueExpression) this.vars.put(variable, expression);
    }

    public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
        this.vars = (Map) in.readObject();
    }

    public void writeExternal(ObjectOutput out) throws IOException {
        out.writeObject(this.vars);
    }
}
/*
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```

```

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*/
package com.sun.el.lang;

import java.io.Externalizable;
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;
import java.lang.reflect.Method;
import java.util.HashMap;
import java.util.Map;

import javax.el.FunctionMapper;

import com.sun.el.util.ReflectionUtil;

/**
 * @author Jacob Hookom [jacob@hookom.net]
 * @version $Change: 181177 $ $DateTime: 2001/06/26 08:45:09 $ $Author: kchung $
 */
public class FunctionMapperImpl extends FunctionMapper implements
    Externalizable {

    private static final long serialVersionUID = 1L;

    protected Map functions = null;

    /**
     * (non-Javadoc)
     *
     * @see javax.el.FunctionMapper#resolveFunction(java.lang.String,
     *      java.lang.String)
     */
    public Method resolveFunction(String prefix, String localName) {
        if (this.functions != null) {
            Function f = (Function) this.functions.get(prefix + ":" + localName);

```

```

        return f.getMethod();
    }
    return null;
}

public void addFunction(String prefix, String localName, Method m) {
    if (this.functions == null) {
        this.functions = new HashMap();
    }
    Function f = new Function(prefix, localName, m);
    synchronized (this) {
        this.functions.put(prefix+":"+localName, f);
    }
}

/*
 * (non-Javadoc)
 *
 * @see java.io.Externalizable#writeExternal(java.io.ObjectOutput)
 */
public void writeExternal(ObjectOutput out) throws IOException {
    out.writeObject(this.functions);
}

/*
 * (non-Javadoc)
 *
 * @see java.io.Externalizable#readExternal(java.io.ObjectInput)
 */
public void readExternal(ObjectInput in) throws IOException,
    ClassNotFoundException {
    this.functions = (Map) in.readObject();
}

public static class Function implements Externalizable {

    protected transient Method m;
    protected String owner;
    protected String name;
    protected String[] types;
    protected String prefix;
    protected String localName;

    /**
     *
     */
    public Function(String prefix, String localName, Method m) {
        if (localName == null) {

```

```

        throw new NullPointerException("LocalName cannot be null");
    }
    if (m == null) {
        throw new NullPointerException("Method cannot be null");
    }
    this.prefix = prefix;
    this.localName = localName;
    this.m = m;
}

public Function() {
    // for serialization
}

/*
 * (non-Javadoc)
 *
 * @see java.io.Externalizable#writeExternal(java.io.ObjectOutput)
 */
public void writeExternal(ObjectOutput out) throws IOException {

    out.writeUTF((this.prefix != null) ? this.prefix : "");
    out.writeUTF(this.localName);

    if (this.owner != null) {
        out.writeUTF(this.owner);
    } else {
        out.writeUTF(this.m.getDeclaringClass().getName());
    }
    if (this.name != null) {
        out.writeUTF(this.name);
    } else {
        out.writeUTF(this.m.getName());
    }
    if (this.types != null) {
        out.writeObject(this.types);
    } else {
        out.writeObject(ReflectionUtil.toTypeNameArray(this.m.getParameterTypes()));
    }
}

/*
 * (non-Javadoc)
 *
 * @see java.io.Externalizable#readExternal(java.io.ObjectInput)
 */
public void readExternal(ObjectInput in) throws IOException,
    ClassNotFoundException {

```

```

    this.prefix = in.readUTF();
    if ("".equals(this.prefix)) this.prefix = null;
    this.localName = in.readUTF();
    this.owner = in.readUTF();
    this.name = in.readUTF();
    this.types = (String[]) in.readObject();
}

public Method getMethod() {
    if (this.m == null) {
        try {
            Class t = Class.forName(this.owner, false,
                Thread.currentThread().getContextClassLoader());
            Class[] p = ReflectionUtil.toArray(this.types);
            this.m = t.getMethod(this.name, p);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
    return this.m;
}

public boolean matches(String prefix, String localName) {
    if (this.prefix != null) {
        if (prefix == null) return false;
        if (!this.prefix.equals(prefix)) return false;
    }
    return this.localName.equals(localName);
}

/* (non-Javadoc)
 * @see java.lang.Object#equals(java.lang.Object)
 */
public boolean equals(Object obj) {
    if (obj instanceof Function) {
        return this.hashCode() == obj.hashCode();
    }
    return false;
}

/* (non-Javadoc)
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return (this.prefix + this.localName).hashCode();
}
}

```

```

}
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 */

```

```
package com.sun.el.parser;
```

```
import javax.el.ELEException;
import javax.el.MethodInfo;
import javax.el.ValueReference;
import javax.el.PropertyNotWritableException;
```

```
import com.sun.el.lang.ELSupport;
import com.sun.el.lang.EvaluationContext;
import com.sun.el.util.MessageFactory;
```

```

/**
 * @author Jacob Hookom [jacob@hookom.net]
 * @version $Change: 181177 $$DateTime: 2001/06/26 08:45:09 $$Author: kchung $
 */
public abstract class SimpleNode extends ELSupport implements Node {
    protected Node parent;

    protected Node[] children;

    protected int id;

    protected String image;

    public SimpleNode(int i) {
        id = i;
    }

    public void jjtOpen() {
    }

    public void jjtClose() {
    }

    public void jjtSetParent(Node n) {
        parent = n;
    }

    public Node jjtGetParent() {
        return parent;
    }

    public void jjtAddChild(Node n, int i) {
        if (children == null) {
            children = new Node[i + 1];
        } else if (i >= children.length) {
            Node c[] = new Node[i + 1];
            System.arraycopy(children, 0, c, 0, children.length);
            children = c;
        }
        children[i] = n;
    }

    public Node jjtGetChild(int i) {
        return children[i];
    }

    public int jjtGetNumChildren() {

```



```

    return (children == null) ? 0 : children.length;
}

/*
 * You can override these two methods in subclasses of SimpleNode to
 * customize the way the node appears when the tree is dumped. If your
 * output uses more than one line you should override toString(String),
 * otherwise overriding toString() is probably all you need to do.
 */

public String toString() {
    if (this.image != null) {
        return ELParserTreeConstants.jjtNodeName[id] + "[" + this.image
            + "]";
    }
    return ELParserTreeConstants.jjtNodeName[id];
}

public String toString(String prefix) {
    return prefix + toString();
}

/*
 * Override this method if you want to customize how the node dumps out its
 * children.
 */

public void dump(String prefix) {
    System.out.println(toString(prefix));
    if (children != null) {
        for (int i = 0; i < children.length; ++i) {
            SimpleNode n = (SimpleNode) children[i];
            if (n != null) {
                n.dump(prefix + " ");
            }
        }
    }
}

public String getImage() {
    return image;
}

public void setImage(String image) {
    this.image = image;
}

public Class getType(EvaluationContext ctx)

```

```

        throws ELException {
        throw new UnsupportedOperationException();
    }

    public Object getValue(EvaluationContext ctx)
        throws ELException {
        throw new UnsupportedOperationException();
    }

    public ValueReference getValueReference(EvaluationContext ctx)
        throws ELException {
        return null;
    }

    public boolean isReadOnly(EvaluationContext ctx)
        throws ELException {
        return true;
    }

    public void setValue(EvaluationContext ctx, Object value)
        throws ELException {
        throw new PropertyNotWritableException(MessageFactory.get("error.syntax.set"));
    }

    public void accept(NodeVisitor visitor) throws ELException {
        visitor.visit(this);
        if (this.children != null && this.children.length > 0) {
            for (int i = 0; i < this.children.length; i++) {
                this.children[i].accept(visitor);
            }
        }
    }

    public Object invoke(EvaluationContext ctx, Class[] paramTypes, Object[] paramValues) throws ELException {
        throw new UnsupportedOperationException();
    }

    public MethodInfo getMethodInfo(EvaluationContext ctx, Class[] paramTypes) throws ELException {
        throw new UnsupportedOperationException();
    }

    @Override
    public boolean equals(Object node) {
        if (!(node instanceof SimpleNode)) {
            return false;
        }
        SimpleNode n = (SimpleNode) node;
        if (this.id != n.id) {

```

```

        return false;
    }
    if (this.children == null && n.children == null) {
        if (this.image == null) {
            return n.image == null;
        }
        return this.image.equals(n.image);
    }
    if (this.children == null || n.children == null) {
        // One is null and the other is non-null
        return false;
    }
    if (this.children.length != n.children.length) {
        return false;
    }
    if (this.children.length == 0) {
        if (this.image == null) {
            return n.image == null;
        }
        return this.image.equals(n.image);
    }
    for (int i = 0; i < this.children.length; i++) {
        if (! this.children[i].equals(n.children[i])) {
            return false;
        }
    }
    return true;
}

public boolean isParametersProvided() {
    return false;
}

@Override
public int hashCode() {
    if (this.children == null || this.children.length == 0) {
        if (this.image != null) {
            return this.image.hashCode();
        }
        return this.id;
    }
    int h = 0;
    for (int i = this.children.length - 1; i >=0; i--) {
        h = h + h + h + this.children[i].hashCode();
    }
    h = h + h + h + id;
    return h;
}

```

```

}
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*/
package com.sun.el;

import java.io.Externalizable;
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;

import javax.el.ELContext;
import javax.el.ELException;
import javax.el.ELResolver;
import javax.el.Expression;
import javax.el.ExpressionFactory;

```

```

import javax.el.FunctionMapper;
import javax.el.PropertyNotFoundException;
import javax.el.PropertyNotWritableException;
import javax.el.ValueExpression;
import javax.el.VariableMapper;
import javax.el.ValueReference;

import com.sun.el.lang.ELSupport;
import com.sun.el.lang.EvaluationContext;
import com.sun.el.lang.ExpressionBuilder;
import com.sun.el.parser.AstLiteralExpression;
import com.sun.el.parser.Node;
import com.sun.el.util.ReflectionUtil;

/**
 * An Expression that can get or set a value.
 *
 * <p>
 * In previous incarnations of this API, expressions could only be read.
 * ValueExpression objects can now be used both to retrieve a
 * value and to set a value. Expressions that can have a value set on them are
 * referred to as l-value expressions. Those that cannot are referred to as
 * r-value expressions. Not all r-value expressions can be used as l-value
 * expressions (e.g. "${ 1+1 }" or
 * "${firstName} ${lastName}"). See the EL Specification for
 * details. Expressions that cannot be used as l-values must always return
 * true from isReadOnly().
 * </p>
 *
 * <p>
 * The { @link ExpressionFactory#createValueExpression } method
 * can be used to parse an expression string and return a concrete instance
 * of ValueExpression that encapsulates the parsed expression.
 * The { @link FunctionMapper } is used at parse time, not evaluation time,
 * so one is not needed to evaluate an expression using this class.
 * However, the { @link ELContext } is needed at evaluation time.</p>
 *
 * <p>The { @link #getValue }, { @link #setValue }, { @link #isReadOnly } and
 * { @link #getType } methods will evaluate the expression each time they are
 * called. The { @link ELResolver } in the ELContext is used to
 * resolve the top-level variables and to determine the behavior of the
 * . and [] operators. For any of the four methods,
 * the { @link ELResolver#getValue } method is used to resolve all properties
 * up to but excluding the last one. This provides the base
 * object. At the last resolution, the ValueExpression will
 * call the corresponding { @link ELResolver#getValue },
 * { @link ELResolver#setValue }, { @link ELResolver#isReadOnly } or
 * { @link ELResolver#getType } method, depending on which was called on

```

```

* the <code>ValueExpression</code>.
* </p>
*
* <p>See the notes about comparison, serialization and immutability in
* the { @link Expression } javadocs.
*
* @see javax.el.ELResolver
* @see javax.el.Expression
* @see javax.el.ExpressionFactory
* @see javax.el.ValueExpression
*
* @author Jacob Hookom [jacob@hookom.net]
* @version $Change: 181177 $$DateTime: 2001/06/26 08:45:09 $$Author: dochez $
*/
public final class ValueExpressionImpl extends ValueExpression implements
    Externalizable {

    private Class expectedType;

    private String expr;

    private FunctionMapper fnMapper;

    private VariableMapper varMapper;

    private transient Node node;

    public ValueExpressionImpl() {

    }

    /**
     *
     */
    public ValueExpressionImpl(String expr, Node node, FunctionMapper fnMapper,
        VariableMapper varMapper, Class expectedType) {
        this.expr = expr;
        this.node = node;
        this.fnMapper = fnMapper;
        this.varMapper = varMapper;
        this.expectedType = expectedType;
    }

    /**
     * (non-Javadoc)
     *
     * @see java.lang.Object#equals(java.lang.Object)
     */

```

```

public boolean equals(Object obj) {
    if (obj instanceof ValueExpressionImpl) {
        ValueExpressionImpl v = (ValueExpressionImpl) obj;
        return getNode().equals(v.getNode());
    }
    return false;
}

/*
 * (non-Javadoc)
 *
 * @see javax.el.ValueExpression#getExpectedType()
 */
public Class getExpectedType() {
    return this.expectedType;
}

/**
 * Returns the type the result of the expression will be coerced to after
 * evaluation.
 *
 * @return the <code>expectedType</code> passed to the
 *         <code>ExpressionFactory.createValueExpression</code> method
 *         that created this <code>ValueExpression</code>.
 *
 * @see javax.el.Expression#getExpressionString()
 */
public String getExpressionString() {
    return this.expr;
}

/**
 * @return
 * @throws ELException
 */
private Node getNode() throws ELException {
    if (this.node == null) {
        this.node = ExpressionBuilder.createNode(this.expr);
    }
    return this.node;
}

/*
 * (non-Javadoc)
 *
 * @see javax.el.ValueExpression#getType(javax.el.ELContext)
 */
public Class getType(ELContext context) throws PropertyNotFoundException,

```

```

        ELException {
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
        this.varMapper);
    return this.getNode().getType(ctx);
}

/*
 * (non-Javadoc)
 *
 * @see javax.el.ValueExpression#getValueReference(javax.el.ELContext)
 */
public ValueReference getValueReference(ELContext context)
    throws PropertyNotFoundException, ELException {
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
        this.varMapper);
    return this.getNode().getValueReference(ctx);
}

/*
 * (non-Javadoc)
 *
 * @see javax.el.ValueExpression#getValue(javax.el.ELContext)
 */
public Object getValue(ELContext context) throws PropertyNotFoundException,
    ELException {
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
        this.varMapper);
    Object value = this.getNode().getValue(ctx);
    if (this.expectedType != null) {
        try {
            value = ELSupport.coerceToType(value, this.expectedType);
        } catch (IllegalArgumentException ex) {
            throw new ELException(ex);
        }
    }
    return value;
}

/*
 * (non-Javadoc)
 *
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return getNode().hashCode();
}

/*

```



```

* (non-Javadoc)
*
* @see javax.el.ValueExpression#isLiteralText()
*/
public boolean isLiteralText() {
    try {
        return this.getNode() instanceof AstLiteralExpression;
    } catch (ELException ele) {
        return false;
    }
}

/*
* (non-Javadoc)
*
* @see javax.el.ValueExpression#isReadOnly(javax.el.ELContext)
*/
public boolean isReadOnly(ELContext context)
    throws PropertyNotFoundException, ELException {
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
        this.varMapper);
    return this.getNode().isReadOnly(ctx);
}

public void readExternal(ObjectInput in) throws IOException,
    ClassNotFoundException {
    this.expr = in.readUTF();
    String type = in.readUTF();
    if (!"".equals(type)) {
        this.expectedType = ReflectionUtil.forName(type);
    }
    this.fnMapper = (FunctionMapper) in.readObject();
    this.varMapper = (VariableMapper) in.readObject();
}

/*
* (non-Javadoc)
*
* @see javax.el.ValueExpression#setValue(javax.el.ELContext,
*     java.lang.Object)
*/
public void setValue(ELContext context, Object value)
    throws PropertyNotFoundException, PropertyNotWritableException,
    ELException {
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
        this.varMapper);
    this.getNode().setValue(ctx, value);
}

```

```

public void writeExternal(ObjectOutput out) throws IOException {
    out.writeUTF(this.expr);
    out.writeUTF((this.expectedType != null) ? this.expectedType.getName()
        : "");
    out.writeObject(this.fnMapper);
    out.writeObject(this.varMapper);
}

public String toString() {
    return "ValueExpression["+this.expr+"]";
}
}
/*
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 */

```

```

package com.sun.el;

import java.io.Externalizable;
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;

import javax.el.ELContext;
import javax.el.ELException;
import javax.el.ELResolver;
import javax.el.Expression;
import javax.el.ExpressionFactory;
import javax.el.FunctionMapper;
import javax.el.MethodExpression;
import javax.el.MethodInfo;
import javax.el.MethodNotFoundException;
import javax.el.PropertyNotFoundException;
import javax.el.VariableMapper;

import com.sun.el.lang.ELSupport;
import com.sun.el.lang.EvaluationContext;
import com.sun.el.lang.ExpressionBuilder;
import com.sun.el.parser.Node;
import com.sun.el.util.ReflectionUtil;

/**
 * An Expression that refers to a method on an object.
 *
 * <p>
 * <code>The { @link ExpressionFactory#createMethodExpression } method
 * can be used to parse an expression string and return a concrete instance
 * of MethodExpression that encapsulates the parsed expression.
 * The { @link FunctionMapper } is used at parse time, not evaluation time,
 * so one is not needed to evaluate an expression using this class.
 * However, the { @link ELContext } is needed at evaluation time.</p>
 *
 * <p>The { @link #getMethodInfo } and { @link #invoke } methods will evaluate the
 * expression each time they are called. The { @link ELResolver } in the
 * ELContext is used to resolve the top-level variables and to
 * determine the behavior of the . and []
 * operators. For any of the two methods, the { @link ELResolver#getValue }
 * method is used to resolve all properties up to but excluding the last
 * one. This provides the base object on which the method
 * appears. If the base object is null, a
 * NullPointerException must be thrown. At the last resolution,
 * the final property is then coerced to a String,
 * which provides the name of the method to be found. A method matching the
 * name and expected parameters provided at parse time is found and it is

```

```

* either queried or invoked (depending on the method called on this
* <code>MethodExpression</code>).</p>
*
* <p>See the notes about comparison, serialization and immutability in
* the { @link Expression } javadocs.
*
* @see javax.el.ELResolver
* @see javax.el.Expression
* @see javax.el.ExpressionFactory
* @see javax.el.MethodExpression
*
* @author Jacob Hookom [jacob@hookom.net]
* @version $Change: 181177 $$DateTime: 2001/06/26 08:45:09 $$Author: kchung $
*/

```

```

public final class MethodExpressionImpl extends MethodExpression implements
    Externalizable {

```

```

    private Class expectedType;

```

```

    private String expr;

```

```

    private FunctionMapper fnMapper;

```

```

    private VariableMapper varMapper;

```

```

    private transient Node node;

```

```

    private Class[] paramTypes;

```

```

/**

```

```

 *

```

```

 */

```

```

public MethodExpressionImpl() {
    super();
}

```

```

/**

```

```

 * @param expr

```

```

 * @param node

```

```

 * @param fnMapper

```

```

 * @param expectedType

```

```

 * @param paramTypes

```

```

 */

```

```

public MethodExpressionImpl(String expr, Node node,
    FunctionMapper fnMapper, VariableMapper varMapper,
    Class expectedType, Class[] paramTypes) {
    super();
    this.expr = expr;

```

```

    this.node = node;
    this.fnMapper = fnMapper;
    this.varMapper = varMapper;
    this.expectedType = expectedType;
    this.paramTypes = paramTypes;
}

/**
 * Determines whether the specified object is equal to this
 * <code>Expression</code>.
 *
 * <p>
 * The result is <code>>true</code> if and only if the argument is not
 * <code>>null</code>, is an <code>Expression</code> object that is the
 * of the same type (<code>ValueExpression</code> or
 * <code>MethodExpression</code>), and has an identical parsed
 * representation.
 * </p>
 *
 * <p>
 * Note that two expressions can be equal if their expression Strings are
 * different. For example, <code>${fn1:foo()}</code> and
 * <code>${fn2:foo()}</code> are equal if their corresponding
 * <code>FunctionMapper</code>s mapped <code>fn1:foo</code> and
 * <code>fn2:foo</code> to the same method.
 * </p>
 *
 * @param obj
 *     the <code>Object</code> to test for equality.
 * @return <code>>true</code> if <code>obj</code> equals this
 *     <code>Expression</code>; <code>>false</code> otherwise.
 * @see java.util.Hashtable
 * @see java.lang.Object#equals(java.lang.Object)
 */
public boolean equals(Object obj) {
    if (obj instanceof MethodExpressionImpl) {
        MethodExpressionImpl me = (MethodExpressionImpl) obj;
        return getNode().equals(me.getNode());
    }
    return false;
}

/**
 * Returns the original String used to create this <code>Expression</code>,
 * unmodified.
 *
 * <p>
 * This is used for debugging purposes but also for the purposes of

```

```

* comparison (e.g. to ensure the expression in a configuration file has not
* changed).
* </p>
*
* <p>
* This method does not provide sufficient information to re-create an
* expression. Two different expressions can have exactly the same
* expression string but different function mappings. Serialization should
* be used to save and restore the state of an <code>Expression</code>.
* </p>
*
* @return The original expression String.
*
* @see javax.el.Expression#getExpressionString()
*/
public String getExpressionString() {
    return this.expr;
}

/**
* Evaluates the expression relative to the provided context, and returns
* information about the actual referenced method.
*
* @param context
*     The context of this evaluation
* @return an instance of <code>MethodInfo</code> containing information
*     about the method the expression evaluated to.
* @throws NullPointerException
*     if context is <code>null</code> or the base object is
*     <code>null</code> on the last resolution.
* @throws PropertyNotFoundException
*     if one of the property resolutions failed because a specified
*     variable or property does not exist or is not readable.
* @throws MethodNotFoundException
*     if no suitable method can be found.
* @throws ELException
*     if an exception was thrown while performing property or
*     variable resolution. The thrown exception must be included as
*     the cause property of this exception, if available.
* @see javax.el.MethodExpression#getMethodInfo(javax.el.ELContext)
*/
public MethodInfo getMethodInfo(ELContext context)
    throws PropertyNotFoundException, MethodNotFoundException,
    ELException {
    Node n = this.getNode();
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
        this.varMapper);
    return n.getMethodInfo(ctx, this.paramTypes);
}

```

```

}

/**
 * @return
 * @throws ELException
 */
private Node getNode() throws ELException {
    if (this.node == null) {
        this.node = ExpressionBuilder.createNode(this.expr);
    }
    return this.node;
}

/**
 * Returns the hash code for this Expression.
 *
 * <p>
 * See the note in the { @link #equals} method on how two expressions can be
 * equal if their expression Strings are different. Recall that if two
 * objects are equal according to the equals(Object) method,
 * then calling the hashCode method on each of the two
 * objects must produce the same integer result. Implementations must take
 * special note and implement hashCode correctly.
 * </p>
 *
 * @return The hash code for this Expression.
 * @see #equals
 * @see java.util.Hashtable
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return getNode().hashCode();
}

/**
 * Evaluates the expression relative to the provided context, invokes the
 * method that was found using the supplied parameters, and returns the
 * result of the method invocation.
 *
 * @param context
 *     The context of this evaluation.
 * @param params
 *     The parameters to pass to the method, or null
 *     if no parameters.
 * @return the result of the method invocation (null if the
 *     method has a void return type).
 * @throws NullPointerException
 *     if context is null or the base object is

```

```

*      <code>null</code> on the last resolution.
* @throws PropertyNotFoundException
*      if one of the property resolutions failed because a specified
*      variable or property does not exist or is not readable.
* @throws MethodNotFoundException
*      if no suitable method can be found.
* @throws ELException
*      if an exception was thrown while performing property or
*      variable resolution. The thrown exception must be included as
*      the cause property of this exception, if available. If the
*      exception thrown is an <code>InvocationTargetException</code>,
*      extract its <code>cause</code> and pass it to the
*      <code>ELException</code> constructor.
* @see javax.el.MethodExpression#invoke(javax.el.ELContext,
*      java.lang.Object[])
*/
public Object invoke(ELContext context, Object[] params)
    throws PropertyNotFoundException, MethodNotFoundException,
    ELException {
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
        this.varMapper);
    return this.getNode().invoke(ctx, this.paramTypes, params);
}

/*
* (non-Javadoc)
*
* @see java.io.Externalizable#readExternal(java.io.ObjectInput)
*/
public void readExternal(ObjectInput in) throws IOException,
    ClassNotFoundException {
    this.expr = in.readUTF();
    String type = in.readUTF();
    if (!"".equals(type)) {
        this.expectedType = ReflectionUtil.forName(type);
    }
    this.paramTypes = ReflectionUtil.toArray(((String[]) in
        .readObject()));
    this.fnMapper = (FunctionMapper) in.readObject();
    this.varMapper = (VariableMapper) in.readObject();
}

/*
* (non-Javadoc)
*
* @see java.io.Externalizable#writeExternal(java.io.ObjectOutput)
*/
public void writeExternal(ObjectOutput out) throws IOException {

```



```

    out.writeUTF(this.expr);
    out.writeUTF((this.expectedType != null) ? this.expectedType.getName()
        : "");
    out.writeObject(ReflectionUtil.toTypeNameArray(this.paramTypes));
    out.writeObject(this.fnMapper);
    out.writeObject(this.varMapper);
}

public boolean isLiteralText() {
    return false;
}
}
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 */
package com.sun.el;

```

```

import javax.el.ELContext;
import javax.el.ELException;
import javax.el.ExpressionFactory;
import javax.el.MethodExpression;
import javax.el.ValueExpression;

import com.sun.el.lang.ExpressionBuilder;
import com.sun.el.lang.ELSupport;
import com.sun.el.util.MessageFactory;

/**
 * @see javax.el.ExpressionFactory
 *
 * @author Jacob Hookom [jacob@hookom.net]
 * @version $Change: 181177 $$DateTime: 2001/06/26 08:45:09 $$Author: kchung $
 */
public class ExpressionFactoryImpl extends ExpressionFactory {

    /**
     *
     */
    public ExpressionFactoryImpl() {
        super();
    }

    public Object coerceToType(Object obj, Class type) {
        Object ret;
        try {
            ret = ELSupport.coerceToType(obj, type);
        } catch (IllegalArgumentException ex) {
            throw new ELException(ex);
        }
        return ret;
    }

    public MethodExpression createMethodExpression(ELContext context,
        String expression, Class expectedReturnType,
        Class[] expectedParamTypes) {
        if (expectedParamTypes == null) {
            throw new NullPointerException(MessageFactory
                .get("error.method.nullParms"));
        }
        ExpressionBuilder builder = new ExpressionBuilder(expression, context);
        return builder.createMethodExpression(expectedReturnType,
            expectedParamTypes);
    }
}

```

```

public ValueExpression createValueExpression(ELContext context,
    String expression, Class expectedType) {
    if (expectedType == null) {
        throw new NullPointerException(MessageFactory
            .get("error.value.expectedType"));
    }
    ExpressionBuilder builder = new ExpressionBuilder(expression, context);
    return builder.createValueExpression(expectedType);
}

public ValueExpression createValueExpression(Object instance,
    Class expectedType) {
    if (expectedType == null) {
        throw new NullPointerException(MessageFactory
            .get("error.value.expectedType"));
    }
    return new ValueExpressionLiteral(instance, expectedType);
}
}

```

1.210 elastic search 2.3.2

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```
<!DOCTYPE html>
<html lang="en" class="">
  <head prefix="og: http://ogp.me/ns# fb: http://ogp.me/ns/fb# object: http://ogp.me/ns/object# article:
http://ogp.me/ns/article# profile: http://ogp.me/ns/profile#">
    <meta charset='utf-8'>
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta http-equiv="Content-Language" content="en">

    <title>jsr166e/LICENSE at master · twitter/jsr166e · GitHub</title>
    <link rel="search" type="application/opensearchdescription+xml" href="/opensearch.xml" title="GitHub">
    <link rel="fluid-icon" href="https://github.com/fluidicon.png" title="GitHub">
    <link rel="apple-touch-icon" sizes="57x57" href="/apple-touch-icon-114.png">
    <link rel="apple-touch-icon" sizes="114x114" href="/apple-touch-icon-114.png">
    <link rel="apple-touch-icon" sizes="72x72" href="/apple-touch-icon-144.png">
    <link rel="apple-touch-icon" sizes="144x144" href="/apple-touch-icon-144.png">
    <meta property="fb:app_id" content="1401488693436528">

    <meta content="@github" name="twitter:site" /><meta content="summary" name="twitter:card" /><meta
content="twitter/jsr166e" name="twitter:title" /><meta content="jsr166e - JSR166e for Twitter"
name="twitter:description" /><meta content="https://avatars3.githubusercontent.com/u/50278?v=3&s=400"
```

```
name="twitter:image:src" />
  <meta content="GitHub" property="og:site_name" /><meta content="object" property="og:type" /><meta
content="https://avatars3.githubusercontent.com/u/50278?v=3&s=400" property="og:image" /><meta
content="twitter/jsr166e" property="og:title" /><meta content="https://github.com/twitter/jsr166e"
property="og:url" /><meta content="jsr166e - JSR166e for Twitter" property="og:description" />
  <meta name="browser-stats-url" content="https://api.github.com/_private/browser/stats">
<meta name="browser-errors-url" content="https://api.github.com/_private/browser/errors">
<link rel="assets" href="https://assets-cdn.github.com/">

<meta name="pjax-timeout" content="1000">

<meta name="msapplication-TileImage" content="/windows-tile.png">
<meta name="msapplication-TileColor" content="#ffffff">
<meta name="selected-link" value="repo_source" data-pjax-transient>

  <meta name="google-analytics" content="UA-3769691-2">

  <meta content="collector.githubapp.com" name="octolytics-host" /><meta content="collector-cdn.github.com"
name="octolytics-script-host" /><meta content="github" name="octolytics-app-id" /><meta
content="5DDC664B:1224:764FEE3:559198CA" name="octolytics-dimension-request_id" />

<meta content="Rails, view, blob#show" name="analytics-event" />
<meta class="js-ga-set" name="dimension1" content="Logged Out">
<meta name="is-dotcom" content="true">
  <meta name="hostname" content="github.com">
<meta name="user-login" content="">

<link rel="icon" sizes="any" mask href="https://assets-cdn.github.com/pinned-octocat.svg">
<meta name="theme-color" content="#4078c0">
<link rel="icon" type="image/x-icon" href="https://assets-cdn.github.com/favicon.ico">

  <meta content="authenticity_token" name="csrf-param" />
<meta
content="YAGONOPXBMfqX/pPWj3YR+j2DkWsJgW8Gni5MpP/FWPn4Zcul6M6i/n493IqzL0GsC7p161d9sSP2
9QiY6D/tA==" name="csrf-token" />

  <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/github/index-
232355eb24f646c56e2cef71efc9093523c9a76ad362429a9da14b5d6f60c0e0.css" media="all" rel="stylesheet" />
  <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/github2/index-
53b81bbd58011083c0ec0ad891de925f2dc177a927a56beed25af072f386e72.css" media="all" rel="stylesheet" />

  <meta http-equiv="x-pjax-version" content="4bee42fe71c3e1bf7aa2517c717d9e3a">
```

```
<meta name="description" content="jsr166e - JSR166e for Twitter">
<meta name="go-import" content="github.com/twitter/jsr166e git https://github.com/twitter/jsr166e.git">

<meta content="50278" name="octolytics-dimension-user_id" /><meta content="twitter" name="octolytics-
dimension-user_login" /><meta content="9553526" name="octolytics-dimension-repository_id" /><meta
content="twitter/jsr166e" name="octolytics-dimension-repository_nwo" /><meta content="true" name="octolytics-
dimension-repository_public" /><meta content="false" name="octolytics-dimension-repository_is_fork" /><meta
content="9553526" name="octolytics-dimension-repository_network_root_id" /><meta content="twitter/jsr166e"
name="octolytics-dimension-repository_network_root_nwo" />
<link href="https://github.com/twitter/jsr166e/commits/master.atom" rel="alternate" title="Recent Commits to
jsr166e:master" type="application/atom+xml">
```

```
</head>
```

```
<body class="logged_out env-production vis-public page-blob">
<a href="#start-of-content" tabindex="1" class="accessibility-aid js-skip-to-content">Skip to content</a>
<div class="wrapper">
```

```
<div class="header header-logged-out" role="banner">
<div class="container clearfix">
```

```
<a class="header-logo-wordmark" href="https://github.com/" data-ga-click="(Logged out) Header, go to
homepage, icon:logo-wordmark">
<span class="mega-octicon octicon-logo-github"></span>
</a>
```

```
<div class="header-actions" role="navigation">
<a class="btn btn-primary" href="/join" data-ga-click="(Logged out) Header, clicked Sign up, text:sign-
up">Sign up</a>
<a class="btn" href="/login?return_to=%2Ftwitter%2Fjsr166e%2Fblob%2Fmaster%2FLICENSE" data-ga-
click="(Logged out) Header, clicked Sign in, text:sign-in">Sign in</a>
</div>
```

```
<div class="site-search repo-scope js-site-search" role="search">
<form accept-charset="UTF-8" action="/twitter/jsr166e/search" class="js-site-search-form" data-global-search-
url="/search" data-repo-search-url="/twitter/jsr166e/search" method="get"><div
style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden" value="&#x2713;" /></div>
<label class="js-chromeless-input-container form-control">
<div class="scope-badge">This repository</div>
<input type="text"
```

```

class="js-site-search-focus js-site-search-field is-clearable chromeless-input"
data-hotkey="s"
name="q"
placeholder="Search"
data-global-scope-placeholder="Search GitHub"
data-repo-scope-placeholder="Search"
tabindex="1"
autocapitalize="off">
</label>
</form>
</div>

<ul class="header-nav left" role="navigation">
  <li class="header-nav-item">
    <a class="header-nav-link" href="/explore" data-ga-click="(Logged out) Header, go to explore,
text:explore">Explore</a>
  </li>
  <li class="header-nav-item">
    <a class="header-nav-link" href="/features" data-ga-click="(Logged out) Header, go to features,
text:features">Features</a>
  </li>
  <li class="header-nav-item">
    <a class="header-nav-link" href="https://enterprise.github.com/" data-ga-click="(Logged out) Header, go to
enterprise, text:enterprise">Enterprise</a>
  </li>
  <li class="header-nav-item">
    <a class="header-nav-link" href="/blog" data-ga-click="(Logged out) Header, go to blog,
text:blog">Blog</a>
  </li>
</ul>

</div>
</div>

<div id="start-of-content" class="accessibility-aid"></div>
  <div class="site" itemscope itemtype="http://schema.org/WebPage">
<div id="js-flash-container">

</div>
<div class="pagehead repohead instapaper_ignore readability-menu">
  <div class="container">

<ul class="pagehead-actions">

<li>

```

```

    <a href="/login?return_to=%2Ftwitter%2Fjsr166e"
class="btn btn-sm btn-with-count tooltiped tooltiped-n"
aria-label="You must be signed in to watch a repository" rel="nofollow">
    <span class="octicon octicon-eye"></span>
    Watch
</a>
<a class="social-count" href="/twitter/jsr166e/watchers">
    192
</a>

</li>

<li>
    <a href="/login?return_to=%2Ftwitter%2Fjsr166e"
class="btn btn-sm btn-with-count tooltiped tooltiped-n"
aria-label="You must be signed in to star a repository" rel="nofollow">
    <span class="octicon octicon-star"></span>
    Star
</a>

    <a class="social-count js-social-count" href="/twitter/jsr166e/stargazers">
    13
    </a>

</li>

<li>
    <a href="/login?return_to=%2Ftwitter%2Fjsr166e"
class="btn btn-sm btn-with-count tooltiped tooltiped-n"
aria-label="You must be signed in to fork a repository" rel="nofollow">
    <span class="octicon octicon-repo-forked"></span>
    Fork
</a>
    <a href="/twitter/jsr166e/network" class="social-count">
    2
    </a>
</li>
</ul>

<h1 itemscope itemtype="http://data-vocabulary.org/Breadcrumb" class="entry-title public">
    <span class="mega-octicon octicon-repo"></span>
    <span class="author"><a href="/twitter" class="url fn" itemprop="url" rel="author"><span
itemprop="title">twitter</span></a></span><!--
--><span class="path-divider"></span><!--
--><strong><a href="/twitter/jsr166e" data-pjax="#js-repo-pjax-container">jsr166e</a></strong>

    <span class="page-context-loader">
        
    </span>

    </h1>
</div><!-- /.container -->
</div><!-- /.repohead -->

<div class="container">
    <div class="repository-with-sidebar repo-container new-discussion-timeline ">
        <div class="repository-sidebar clearfix">

<nav class="sunken-menu repo-nav js-repo-nav js-sidenav-container-pjax js-octicon-loaders"
    role="navigation"
    data-pjax="#js-repo-pjax-container"
    data-issue-count-url="/twitter/jsr166e/issues/counts">
<ul class="sunken-menu-group">
    <li class="tooltipped tooltipped-w" aria-label="Code">
        <a href="/twitter/jsr166e" aria-label="Code" class="selected js-selected-navigation-item sunken-menu-item"
data-hotkey="g c" data-selected-links="repo_source repo_downloads repo_commits repo_releases repo_tags
repo_branches /twitter/jsr166e">
            <span class="octicon octicon-code"></span> <span class="full-word">Code</span>
            
        </a> </li>

        <li class="tooltipped tooltipped-w" aria-label="Issues">
            <a href="/twitter/jsr166e/issues" aria-label="Issues" class="js-selected-navigation-item sunken-menu-item"
data-hotkey="g i" data-selected-links="repo_issues repo_labels repo_milestones /twitter/jsr166e/issues">
                <span class="octicon octicon-issue-opened"></span> <span class="full-word">Issues</span>
                <span class="js-issue-replace-counter"></span>
                
            </a> </li>

            <li class="tooltipped tooltipped-w" aria-label="Pull requests">
                <a href="/twitter/jsr166e/pulls" aria-label="Pull requests" class="js-selected-navigation-item sunken-menu-item"
data-hotkey="g p" data-selected-links="repo_pulls /twitter/jsr166e/pulls">
                    <span class="octicon octicon-git-pull-request"></span> <span class="full-word">Pull requests</span>
                    <span class="js-pull-replace-counter"></span>
                    
                </a> </li>

</ul>
<div class="sunken-menu-separator"></div>
<ul class="sunken-menu-group">

    <li class="tooltipped tooltipped-w" aria-label="Pulse">

```



```
<a href="/twitter/jsr166e/pulse" aria-label="Pulse" class="js-selected-navigation-item sunken-menu-item" data-selected-links="pulse /twitter/jsr166e/pulse">
  <span class="octicon octicon-pulse"></span> <span class="full-word">Pulse</span>
  
</a> </li>
```

```
<li class="tooltipped tooltipped-w" aria-label="Graphs">
  <a href="/twitter/jsr166e/graphs" aria-label="Graphs" class="js-selected-navigation-item sunken-menu-item" data-selected-links="repo_graphs repo_contributors /twitter/jsr166e/graphs">
    <span class="octicon octicon-graph"></span> <span class="full-word">Graphs</span>
    
  </a> </li>
</ul>
```

```
</nav>
```

```
<div class="only-with-full-nav">
```

```
<div class="js-clone-url clone-url open"
data-protocol-type="http">
  <h3><span class="text-emphasized">HTTPS</span> clone URL</h3>
  <div class="input-group js-zeroclipboard-container">
    <input type="text" class="input-mini input-monospace js-url-field js-zeroclipboard-target"
      value="https://github.com/twitter/jsr166e.git" readonly="readonly">
    <span class="input-group-button">
      <button aria-label="Copy to clipboard" class="js-zeroclipboard btn btn-sm zeroclipboard-button tooltipped
tooltipped-s" data-copied-hint="Copied!" type="button"><span class="octicon octicon-clippy"></span></button>
    </span>
  </div>
</div>
```

```
<div class="js-clone-url clone-url "
data-protocol-type="subversion">
  <h3><span class="text-emphasized">Subversion</span> checkout URL</h3>
  <div class="input-group js-zeroclipboard-container">
    <input type="text" class="input-mini input-monospace js-url-field js-zeroclipboard-target"
      value="https://github.com/twitter/jsr166e" readonly="readonly">
    <span class="input-group-button">
      <button aria-label="Copy to clipboard" class="js-zeroclipboard btn btn-sm zeroclipboard-button tooltipped
tooltipped-s" data-copied-hint="Copied!" type="button"><span class="octicon octicon-clippy"></span></button>
    </span>
  </div>
</div>
```

```
<div class="clone-options">You can clone with
  <form accept-charset="UTF-8" action="/users/set_protocol?protocol_selector=http&protocol_type=clone"
  class="inline-form js-clone-selector-form " data-remote="true" method="post"><div
  style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden" value="#x2713;" /><input
  name="authenticity_token" type="hidden"
  value="Tbr6tkd91fCQUrALhuHW4nsGAjNk507ZVRFAssFHxA2sK0jgtcgflPXaOSLax2ZTKLwZLnLp2lPP2wiy
  0eB8QQ==" /></div><button class="btn-link js-clone-selector" data-protocol="http"
  type="submit">HTTPS</button></form> or <form accept-charset="UTF-8"
  action="/users/set_protocol?protocol_selector=subversion&protocol_type=clone" class="inline-form js-clone-
  selector-form " data-remote="true" method="post"><div style="margin:0;padding:0;display:inline"><input
  name="utf8" type="hidden" value="#x2713;" /><input name="authenticity_token" type="hidden"
  value="1wKoKeugq0gWnmRTN7CLh9cSMcLL9fAYxGBAqWWRbchCwhcAQyh/WdzQ/2+X7eQtmaCOOvM3q
  R80daheSWEcA==" /></div><button class="btn-link js-clone-selector" data-protocol="subversion"
  type="submit">Subversion</button></form>.
  <a href="https://help.github.com/articles/which-remote-url-should-i-use" class="help tooltiped tooltiped-n" aria-
  label="Get help on which URL is right for you.">
    <span class="octicon octicon-question"></span>
  </a>
</div>
```

```
<a href="/twitter/jsr166e/archive/master.zip"
  class="btn btn-sm sidebar-button"
  aria-label="Download the contents of twitter/jsr166e as a zip file"
  title="Download the contents of twitter/jsr166e as a zip file"
  rel="nofollow">
  <span class="octicon octicon-cloud-download"></span>
  Download ZIP
</a>
</div>
```

```
</div><!-- /.repository-sidebar -->
```

```
<div id="js-repo-pjax-container" class="repository-content context-loader-container" data-pjax-container>
```

```
<a href="/twitter/jsr166e/blob/92d981380361990b46b832edab5d9fed7dc1e7d0/LICENSE" class="hidden js-
permalink-shortcut" data-hotkey="y">Permalink</a>
```

```
<!-- blob contrib key: blob_contributors:v21:3d0501d0683d62d837f33b073486745e -->
```

```
<div class="file-navigation js-zeroclipboard-container">
```

```
<div class="select-menu js-menu-container js-select-menu left">
```

```

<span class="btn btn-sm select-menu-button js-menu-target css-truncate" data-hotkey="w"
  data-ref="master"
  title="master"
  role="button" aria-label="Switch branches or tags" tabindex="0" aria-haspopup="true">
  <span class="octicon octicon-git-branch"></span>
  <i>branch:</i>
  <span class="js-select-button css-truncate-target">master</span>
</span>

<div class="select-menu-modal-holder js-menu-content js-navigation-container" data-pjax aria-hidden="true">

  <div class="select-menu-modal">
    <div class="select-menu-header">
      <span class="select-menu-title">Switch branches/tags</span>
      <span class="octicon octicon-x js-menu-close" role="button" aria-label="Close"></span>
    </div>

    <div class="select-menu-filters">
      <div class="select-menu-text-filter">
        <input type="text" aria-label="Filter branches/tags" id="context-commitish-filter-field" class="js-filterable-
field js-navigation-enable" placeholder="Filter branches/tags">
      </div>
      <div class="select-menu-tabs">
        <ul>
          <li class="select-menu-tab">
            <a href="#" data-tab-filter="branches" data-filter-placeholder="Filter branches/tags" class="js-select-menu-
tab">Branches</a>
          </li>
          <li class="select-menu-tab">
            <a href="#" data-tab-filter="tags" data-filter-placeholder="Find a tag" class="js-select-menu-tab">Tags</a>
          </li>
        </ul>
      </div>
    </div>

    <div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="branches">

      <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

        <a class="select-menu-item js-navigation-item js-navigation-open selected"
          href="/twitter/jsr166e/blob/master/LICENSE"
          data-name="master"
          data-skip-pjax="true"
          rel="nofollow">
          <span class="select-menu-item-icon octicon octicon-check"></span>
          <span class="select-menu-item-text css-truncate-target" title="master">
            master

```

```

    </span>
  </a>
</div>

<div class="select-menu-no-results">Nothing to show</div>
</div>

<div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="tags">
  <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

    <div class="select-menu-item js-navigation-item ">
      <span class="select-menu-item-icon octicon octicon-check"></span>
      <a href="/twitter/jsr166e/tree/v1.1.0/LICENSE"
        data-name="v1.1.0"
        data-skip-pjax="true"
        rel="nofollow"
        class="js-navigation-open select-menu-item-text css-truncate-target"
        title="v1.1.0">v1.1.0</a>
    </div>
    <div class="select-menu-item js-navigation-item ">
      <span class="select-menu-item-icon octicon octicon-check"></span>
      <a href="/twitter/jsr166e/tree/v1.0.0/LICENSE"
        data-name="v1.0.0"
        data-skip-pjax="true"
        rel="nofollow"
        class="js-navigation-open select-menu-item-text css-truncate-target"
        title="v1.0.0">v1.0.0</a>
    </div>
  </div>

  <div class="select-menu-no-results">Nothing to show</div>
</div>

</div>
</div>
</div>

<div class="btn-group right">
  <a href="/twitter/jsr166e/find/master"
    class="js-show-file-finder btn btn-sm empty-icon tooltiped tooltiped-s"
    data-pjax
    data-hotkey="t"
    aria-label="Quickly jump between files">
    <span class="octicon octicon-list-unordered"></span>
  </a>
  <button aria-label="Copy file path to clipboard" class="js-zeroclipboard btn btn-sm zeroclipboard-button
  tooltiped tooltiped-s" data-copied-hint="Copied!" type="button"><span class="octicon octicon-

```

```
clippy"></span></button>
```

```
</div>
```

```
<div class="breadcrumb js-zeroclipboard-target">
```

```
  <span class="repo-root js-repo-root"><span itemscope="" itemtype="http://data-vocabulary.org/Breadcrumb"><a href="/twitter/jsr166e" class="" data-branch="master" data-pjax="true" itemscope="url"><span itemprop="title">jsr166e</span></a></span></span><span class="separator"></span><strong class="final-path">LICENSE</strong>
```

```
</div>
```

```
</div>
```

```
<div class="commit file-history-tease">
```

```
  <div class="file-history-tease-header">
```

```
    
```

```
    <span class="author"><a href="/caniszczyk" rel="contributor">caniszczyk</a></span>
```

```
    <time datetime="2013-04-19T20:27:14Z" is="relative-time">Apr 19, 2013</time>
```

```
    <div class="commit-title">
```

```
      <a href="/twitter/jsr166e/commit/b0e160321460e60a72ac82e358c961805b75f239" class="message" data-pjax="true" title="Initial commit
```

```
Signed-off-by: Chris Aniszczyk <zx@twitter.com>">Initial commit</a>
```

```
</div>
```

```
</div>
```

```
<div class="participation">
```

```
  <p class="quickstat">
```

```
    <a href="#blob_contributors_box" rel="facebox">
```

```
      <strong>1</strong>
```

```
      contributor
```

```
    </a>
```

```
</p>
```

```
</div>
```

```
<div id="blob_contributors_box" style="display:none">
```

```
  <h2 class="facebox-header">Users who have contributed to this file</h2>
```

```
  <ul class="facebox-user-list">
```

```
    <li class="facebox-user-list-item">
```

```
      
```

```
      <a href="/caniszczyk">caniszczyk</a>
```

```
    </li>
```

```
</ul>
```

```
</div>
```

```
</div>
```

```
<div class="file">
```

```

<div class="file-header">
  <div class="file-actions">

    <div class="btn-group">
      <a href="/twitter/jsr166e/raw/master/LICENSE" class="btn btn-sm " id="raw-url">Raw</a>
      <a href="/twitter/jsr166e/blame/master/LICENSE" class="btn btn-sm js-update-url-with-hash">Blame</a>
      <a href="/twitter/jsr166e/commits/master/LICENSE" class="btn btn-sm " rel="nofollow">History</a>
    </div>

    <button type="button" class="octicon-btn disabled tooltiped tooltiped-n" aria-label="You must be signed in
to make or propose changes">
      <span class="octicon octicon-pencil"></span>
    </button>

    <button type="button" class="octicon-btn octicon-btn-danger disabled tooltiped tooltiped-n" aria-label="You
must be signed in to make or propose changes">
      <span class="octicon octicon-trashcan"></span>
    </button>
  </div>

  <div class="file-info">
    122 lines (109 sloc)
    <span class="file-info-divider"></span>
    7.048 kB
  </div>
</div>

<div class="blob-wrapper data type-text">
  <table class="highlight tab-size js-file-line-container" data-tab-size="8">
    <tr>
      <td id="L1" class="blob-num js-line-number" data-line-number="1"></td>
      <td id="LC1" class="blob-code blob-code-inner js-file-line">Creative Commons Legal Code</td>
    </tr>
    <tr>
      <td id="L2" class="blob-num js-line-number" data-line-number="2"></td>
      <td id="LC2" class="blob-code blob-code-inner js-file-line">
</td>
    </tr>
    <tr>
      <td id="L3" class="blob-num js-line-number" data-line-number="3"></td>
      <td id="LC3" class="blob-code blob-code-inner js-file-line">CC0 1.0 Universal</td>
    </tr>
    <tr>
      <td id="L4" class="blob-num js-line-number" data-line-number="4"></td>
      <td id="LC4" class="blob-code blob-code-inner js-file-line">
</td>
    </tr>
  </table>

```

<tr>
 <td id="L5" class="blob-num js-line-number" data-line-number="5"></td>
 <td id="LC5" class="blob-code blob-code-inner js-file-line"> CREATIVE COMMONS CORPORATION IS
NOT A LAW FIRM AND DOES NOT PROVIDE</td>
</tr>
<tr>
 <td id="L6" class="blob-num js-line-number" data-line-number="6"></td>
 <td id="LC6" class="blob-code blob-code-inner js-file-line"> LEGAL SERVICES. DISTRIBUTION OF
THIS DOCUMENT DOES NOT CREATE AN</td>
</tr>
<tr>
 <td id="L7" class="blob-num js-line-number" data-line-number="7"></td>
 <td id="LC7" class="blob-code blob-code-inner js-file-line"> ATTORNEY-CLIENT RELATIONSHIP.
CREATIVE COMMONS PROVIDES THIS</td>
</tr>
<tr>
 <td id="L8" class="blob-num js-line-number" data-line-number="8"></td>
 <td id="LC8" class="blob-code blob-code-inner js-file-line"> INFORMATION ON AN "AS-IS" BASIS.
CREATIVE COMMONS MAKES NO WARRANTIES</td>
</tr>
<tr>
 <td id="L9" class="blob-num js-line-number" data-line-number="9"></td>
 <td id="LC9" class="blob-code blob-code-inner js-file-line"> REGARDING THE USE OF THIS
DOCUMENT OR THE INFORMATION OR WORKS</td>
</tr>
<tr>
 <td id="L10" class="blob-num js-line-number" data-line-number="10"></td>
 <td id="LC10" class="blob-code blob-code-inner js-file-line"> PROVIDED HEREUNDER, AND
DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM</td>
</tr>
<tr>
 <td id="L11" class="blob-num js-line-number" data-line-number="11"></td>
 <td id="LC11" class="blob-code blob-code-inner js-file-line"> THE USE OF THIS DOCUMENT OR THE
INFORMATION OR WORKS PROVIDED</td>
</tr>
<tr>
 <td id="L12" class="blob-num js-line-number" data-line-number="12"></td>
 <td id="LC12" class="blob-code blob-code-inner js-file-line"> HEREUNDER.</td>
</tr>
<tr>
 <td id="L13" class="blob-num js-line-number" data-line-number="13"></td>
 <td id="LC13" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
 <td id="L14" class="blob-num js-line-number" data-line-number="14"></td>
 <td id="LC14" class="blob-code blob-code-inner js-file-line">Statement of Purpose</td>
</tr>

```

<tr>
  <td id="L15" class="blob-num js-line-number" data-line-number="15"></td>
  <td id="LC15" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L16" class="blob-num js-line-number" data-line-number="16"></td>
  <td id="LC16" class="blob-code blob-code-inner js-file-line">The laws of most jurisdictions throughout the
world automatically confer</td>
</tr>
<tr>
  <td id="L17" class="blob-num js-line-number" data-line-number="17"></td>
  <td id="LC17" class="blob-code blob-code-inner js-file-line">exclusive Copyright and Related Rights (defined
below) upon the creator</td>
</tr>
<tr>
  <td id="L18" class="blob-num js-line-number" data-line-number="18"></td>
  <td id="LC18" class="blob-code blob-code-inner js-file-line">and subsequent owner(s) (each and all, an
"owner") of an original work of</td>
</tr>
<tr>
  <td id="L19" class="blob-num js-line-number" data-line-number="19"></td>
  <td id="LC19" class="blob-code blob-code-inner js-file-line">authorship and/or a database (each, a
"Work").</td>
</tr>
<tr>
  <td id="L20" class="blob-num js-line-number" data-line-number="20"></td>
  <td id="LC20" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L21" class="blob-num js-line-number" data-line-number="21"></td>
  <td id="LC21" class="blob-code blob-code-inner js-file-line">Certain owners wish to permanently relinquish
those rights to a Work for</td>
</tr>
<tr>
  <td id="L22" class="blob-num js-line-number" data-line-number="22"></td>
  <td id="LC22" class="blob-code blob-code-inner js-file-line">the purpose of contributing to a commons of
creative, cultural and</td>
</tr>
<tr>
  <td id="L23" class="blob-num js-line-number" data-line-number="23"></td>
  <td id="LC23" class="blob-code blob-code-inner js-file-line">scientific works ("Commons") that the public can
reliably and without fear</td>
</tr>
<tr>
  <td id="L24" class="blob-num js-line-number" data-line-number="24"></td>
  <td id="LC24" class="blob-code blob-code-inner js-file-line">of later claims of infringement build upon,

```


modify, incorporate in other</td>
</tr>
<tr>
<td id="L25" class="blob-num js-line-number" data-line-number="25"></td>
<td id="LC25" class="blob-code blob-code-inner js-file-line">works, reuse and redistribute as freely as possible
in any form whatsoever</td>
</tr>
<tr>
<td id="L26" class="blob-num js-line-number" data-line-number="26"></td>
<td id="LC26" class="blob-code blob-code-inner js-file-line">and for any purposes, including without
limitation commercial purposes.</td>
</tr>
<tr>
<td id="L27" class="blob-num js-line-number" data-line-number="27"></td>
<td id="LC27" class="blob-code blob-code-inner js-file-line">These owners may contribute to the Commons to
promote the ideal of a free</td>
</tr>
<tr>
<td id="L28" class="blob-num js-line-number" data-line-number="28"></td>
<td id="LC28" class="blob-code blob-code-inner js-file-line">culture and the further production of creative,
cultural and scientific</td>
</tr>
<tr>
<td id="L29" class="blob-num js-line-number" data-line-number="29"></td>
<td id="LC29" class="blob-code blob-code-inner js-file-line">works, or to gain reputation or greater
distribution for their Work in</td>
</tr>
<tr>
<td id="L30" class="blob-num js-line-number" data-line-number="30"></td>
<td id="LC30" class="blob-code blob-code-inner js-file-line">part through the use and efforts of others.</td>
</tr>
<tr>
<td id="L31" class="blob-num js-line-number" data-line-number="31"></td>
<td id="LC31" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
<td id="L32" class="blob-num js-line-number" data-line-number="32"></td>
<td id="LC32" class="blob-code blob-code-inner js-file-line">For these and/or other purposes and motivations,
and without any</td>
</tr>
<tr>
<td id="L33" class="blob-num js-line-number" data-line-number="33"></td>
<td id="LC33" class="blob-code blob-code-inner js-file-line">expectation of additional consideration or
compensation, the person</td>
</tr>
<tr>
<td id="L34" class="blob-num js-line-number" data-line-number="34"></td>


```

<td id="L44" class="blob-num js-line-number" data-line-number="44"></td>
<td id="LC44" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
<td id="L45" class="blob-num js-line-number" data-line-number="45"></td>
<td id="LC45" class="blob-code blob-code-inner js-file-line"> i. the right to reproduce, adapt, distribute,
perform, display,</td>
</tr>
<tr>
<td id="L46" class="blob-num js-line-number" data-line-number="46"></td>
<td id="LC46" class="blob-code blob-code-inner js-file-line"> communicate, and translate a Work;</td>
</tr>
<tr>
<td id="L47" class="blob-num js-line-number" data-line-number="47"></td>
<td id="LC47" class="blob-code blob-code-inner js-file-line"> ii. moral rights retained by the original author(s)
and/or performer(s);</td>
</tr>
<tr>
<td id="L48" class="blob-num js-line-number" data-line-number="48"></td>
<td id="LC48" class="blob-code blob-code-inner js-file-line">iii. publicity and privacy rights pertaining to a
person's image or</td>
</tr>
<tr>
<td id="L49" class="blob-num js-line-number" data-line-number="49"></td>
<td id="LC49" class="blob-code blob-code-inner js-file-line"> likeness depicted in a Work;</td>
</tr>
<tr>
<td id="L50" class="blob-num js-line-number" data-line-number="50"></td>
<td id="LC50" class="blob-code blob-code-inner js-file-line"> iv. rights protecting against unfair competition
in regards to a Work,</td>
</tr>
<tr>
<td id="L51" class="blob-num js-line-number" data-line-number="51"></td>
<td id="LC51" class="blob-code blob-code-inner js-file-line"> subject to the limitations in paragraph 4(a),
below;</td>
</tr>
<tr>
<td id="L52" class="blob-num js-line-number" data-line-number="52"></td>
<td id="LC52" class="blob-code blob-code-inner js-file-line"> v. rights protecting the extraction,
dissemination, use and reuse of data</td>
</tr>
<tr>
<td id="L53" class="blob-num js-line-number" data-line-number="53"></td>
<td id="LC53" class="blob-code blob-code-inner js-file-line"> in a Work;</td>
</tr>
<tr>
<td id="L54" class="blob-num js-line-number" data-line-number="54"></td>

```

vi. database rights (such as those arising under Directive 96/9/EC of the	
European Parliament and of the Council of 11 March 1996 on the legal	
protection of databases, and under any national implementation	
thereof, including any amended or successor version of such	
directive); and	
vii. other similar, equivalent or corresponding rights throughout the	
world based on applicable law or treaty, and any national	
implementations thereof.	
2. Waiver. To the greatest extent permitted by, but not in contravention	

of, applicable law, Affirmer hereby overtly, fully, permanently,
irrevocably and unconditionally waives, abandons, and surrenders all of
Affirmer's Copyright and Related Rights and associated claims and causes
of action, whether now known or unknown (including existing as well as
future claims and causes of action), in the Work (i) in all territories
worldwide, (ii) for the maximum duration provided by applicable law or
treaty (including future time extensions), (iii) in any current or future
medium and for any number of copies, and (iv) for any purpose whatsoever,
including without limitation commercial, advertising or promotional
purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each

<tr>	<td id="L74" class="blob-num js-line-number" data-line-number="74"></td>	
	<td id="LC74" class="blob-code blob-code-inner js-file-line">member of the public at large and to the detriment of Affirmer's heirs and</td>	
</tr>		
<tr>	<td id="L75" class="blob-num js-line-number" data-line-number="75"></td>	
	<td id="LC75" class="blob-code blob-code-inner js-file-line">successors, fully intending that such Waiver shall not be subject to</td>	
</tr>		
<tr>	<td id="L76" class="blob-num js-line-number" data-line-number="76"></td>	
	<td id="LC76" class="blob-code blob-code-inner js-file-line">revocation, rescission, cancellation, termination, or any other legal or</td>	
</tr>		
<tr>	<td id="L77" class="blob-num js-line-number" data-line-number="77"></td>	
	<td id="LC77" class="blob-code blob-code-inner js-file-line">equitable action to disrupt the quiet enjoyment of the Work by the public</td>	
</tr>		
<tr>	<td id="L78" class="blob-num js-line-number" data-line-number="78"></td>	
	<td id="LC78" class="blob-code blob-code-inner js-file-line">as contemplated by Affirmer's express Statement of Purpose.</td>	
</tr>		
<tr>	<td id="L79" class="blob-num js-line-number" data-line-number="79"></td>	
	<td id="LC79" class="blob-code blob-code-inner js-file-line">	
</td>		
</tr>		
<tr>	<td id="L80" class="blob-num js-line-number" data-line-number="80"></td>	
	<td id="LC80" class="blob-code blob-code-inner js-file-line">3. Public License Fallback. Should any part of the Waiver for any reason</td>	
</tr>		
<tr>	<td id="L81" class="blob-num js-line-number" data-line-number="81"></td>	
	<td id="LC81" class="blob-code blob-code-inner js-file-line">be judged legally invalid or ineffective under applicable law, then the</td>	
</tr>		
<tr>	<td id="L82" class="blob-num js-line-number" data-line-number="82"></td>	
	<td id="LC82" class="blob-code blob-code-inner js-file-line">Waiver shall be preserved to the maximum extent permitted taking into</td>	
</tr>		
<tr>	<td id="L83" class="blob-num js-line-number" data-line-number="83"></td>	
	<td id="LC83" class="blob-code blob-code-inner js-file-line">account Affirmer's express Statement of	

Purpose. In addition, to the
</tr>
<tr>
<td id="L84" class="blob-num js-line-number" data-line-number="84"></td>
<td id="LC84" class="blob-code blob-code-inner js-file-line">extent the Waiver is so judged Affirmer hereby grants to each affected
</tr>
<tr>
<td id="L85" class="blob-num js-line-number" data-line-number="85"></td>
<td id="LC85" class="blob-code blob-code-inner js-file-line">person a royalty-free, non transferable, non sublicensable, non exclusive,
</tr>
<tr>
<td id="L86" class="blob-num js-line-number" data-line-number="86"></td>
<td id="LC86" class="blob-code blob-code-inner js-file-line">irrevocable and unconditional license to exercise Affirmer's Copyright and
</tr>
<tr>
<td id="L87" class="blob-num js-line-number" data-line-number="87"></td>
<td id="LC87" class="blob-code blob-code-inner js-file-line">Related Rights in the Work (i) in all territories worldwide, (ii) for the
</tr>
<tr>
<td id="L88" class="blob-num js-line-number" data-line-number="88"></td>
<td id="LC88" class="blob-code blob-code-inner js-file-line">maximum duration provided by applicable law or treaty (including future
</tr>
<tr>
<td id="L89" class="blob-num js-line-number" data-line-number="89"></td>
<td id="LC89" class="blob-code blob-code-inner js-file-line">time extensions), (iii) in any current or future medium and for any number
</tr>
<tr>
<td id="L90" class="blob-num js-line-number" data-line-number="90"></td>
<td id="LC90" class="blob-code blob-code-inner js-file-line">of copies, and (iv) for any purpose whatsoever, including without
</tr>
<tr>
<td id="L91" class="blob-num js-line-number" data-line-number="91"></td>
<td id="LC91" class="blob-code blob-code-inner js-file-line">limitation commercial, advertising or promotional purposes (the
</tr>
<tr>
<td id="L92" class="blob-num js-line-number" data-line-number="92"></td>
<td id="LC92" class="blob-code blob-code-inner js-file-line">"License"). The License shall be deemed effective as of the date CC0 was
</tr>
<tr>

	<td id="L93" class="blob-num js-line-number" data-line-number="93"></td>
	<td id="LC93" class="blob-code blob-code-inner js-file-line">applied by Affirmer to the Work. Should any part of the License for any</td>
	</tr>
	<tr>
	<td id="L94" class="blob-num js-line-number" data-line-number="94"></td>
	<td id="LC94" class="blob-code blob-code-inner js-file-line">reason be judged legally invalid or ineffective under applicable law, such</td>
	</tr>
	<tr>
	<td id="L95" class="blob-num js-line-number" data-line-number="95"></td>
	<td id="LC95" class="blob-code blob-code-inner js-file-line">partial invalidity or ineffectiveness shall not invalidate the remainder</td>
	</tr>
	<tr>
	<td id="L96" class="blob-num js-line-number" data-line-number="96"></td>
	<td id="LC96" class="blob-code blob-code-inner js-file-line">of the License, and in such case Affirmer hereby affirms that he or she</td>
	</tr>
	<tr>
	<td id="L97" class="blob-num js-line-number" data-line-number="97"></td>
	<td id="LC97" class="blob-code blob-code-inner js-file-line">will not (i) exercise any of his or her remaining Copyright and Related</td>
	</tr>
	<tr>
	<td id="L98" class="blob-num js-line-number" data-line-number="98"></td>
	<td id="LC98" class="blob-code blob-code-inner js-file-line">Rights in the Work or (ii) assert any associated claims and causes of</td>
	</tr>
	<tr>
	<td id="L99" class="blob-num js-line-number" data-line-number="99"></td>
	<td id="LC99" class="blob-code blob-code-inner js-file-line">action with respect to the Work, in either case contrary to Affirmer's</td>
	</tr>
	<tr>
	<td id="L100" class="blob-num js-line-number" data-line-number="100"></td>
	<td id="LC100" class="blob-code blob-code-inner js-file-line">express Statement of Purpose.</td>
	</tr>
	<tr>
	<td id="L101" class="blob-num js-line-number" data-line-number="101"></td>
	<td id="LC101" class="blob-code blob-code-inner js-file-line">
	</td>
	</tr>
	<tr>
	<td id="L102" class="blob-num js-line-number" data-line-number="102"></td>
	<td id="LC102" class="blob-code blob-code-inner js-file-line">4. Limitations and Disclaimers.</td>
	</tr>
	<tr>

	<td id="L103" class="blob-num js-line-number" data-line-number="103"></td>
	<td id="LC103" class="blob-code blob-code-inner js-file-line">
	</td>
	</tr>
	<tr>
	<td id="L104" class="blob-num js-line-number" data-line-number="104"></td>
	<td id="LC104" class="blob-code blob-code-inner js-file-line"> a. No trademark or patent rights held by
	Affirmer are waived, abandoned,</td>
	</tr>
	<tr>
	<td id="L105" class="blob-num js-line-number" data-line-number="105"></td>
	<td id="LC105" class="blob-code blob-code-inner js-file-line"> surrendered, licensed or otherwise affected
	by this document.</td>
	</tr>
	<tr>
	<td id="L106" class="blob-num js-line-number" data-line-number="106"></td>
	<td id="LC106" class="blob-code blob-code-inner js-file-line"> b. Affirmer offers the Work as-is and makes no
	representations or</td>
	</tr>
	<tr>
	<td id="L107" class="blob-num js-line-number" data-line-number="107"></td>
	<td id="LC107" class="blob-code blob-code-inner js-file-line"> warranties of any kind concerning the Work,
	express, implied,</td>
	</tr>
	<tr>
	<td id="L108" class="blob-num js-line-number" data-line-number="108"></td>
	<td id="LC108" class="blob-code blob-code-inner js-file-line"> statutory or otherwise, including without
	limitation warranties of</td>
	</tr>
	<tr>
	<td id="L109" class="blob-num js-line-number" data-line-number="109"></td>
	<td id="LC109" class="blob-code blob-code-inner js-file-line"> title, merchantability, fitness for a particular
	purpose, non</td>
	</tr>
	<tr>
	<td id="L110" class="blob-num js-line-number" data-line-number="110"></td>
	<td id="LC110" class="blob-code blob-code-inner js-file-line"> infringement, or the absence of latent or other
	defects, accuracy, or</td>
	</tr>
	<tr>
	<td id="L111" class="blob-num js-line-number" data-line-number="111"></td>
	<td id="LC111" class="blob-code blob-code-inner js-file-line"> the present or absence of errors, whether or
	not discoverable, all to</td>
	</tr>
	<tr>
	<td id="L112" class="blob-num js-line-number" data-line-number="112"></td>
	<td id="LC112" class="blob-code blob-code-inner js-file-line"> the greatest extent permissible under
	applicable law.</td>

```

</tr>
<tr>
  <td id="L113" class="blob-num js-line-number" data-line-number="113"></td>
  <td id="LC113" class="blob-code blob-code-inner js-file-line"> c. Affirmer disclaims responsibility for
clearing rights of other persons</td>
</tr>
<tr>
  <td id="L114" class="blob-num js-line-number" data-line-number="114"></td>
  <td id="LC114" class="blob-code blob-code-inner js-file-line"> that may apply to the Work or any use
thereof, including without</td>
</tr>
<tr>
  <td id="L115" class="blob-num js-line-number" data-line-number="115"></td>
  <td id="LC115" class="blob-code blob-code-inner js-file-line"> limitation any person's Copyright and
Related Rights in the Work.</td>
</tr>
<tr>
  <td id="L116" class="blob-num js-line-number" data-line-number="116"></td>
  <td id="LC116" class="blob-code blob-code-inner js-file-line"> Further, Affirmer disclaims responsibility for
obtaining any necessary</td>
</tr>
<tr>
  <td id="L117" class="blob-num js-line-number" data-line-number="117"></td>
  <td id="LC117" class="blob-code blob-code-inner js-file-line"> consents, permissions or other rights required
for any use of the</td>
</tr>
<tr>
  <td id="L118" class="blob-num js-line-number" data-line-number="118"></td>
  <td id="LC118" class="blob-code blob-code-inner js-file-line"> Work.</td>
</tr>
<tr>
  <td id="L119" class="blob-num js-line-number" data-line-number="119"></td>
  <td id="LC119" class="blob-code blob-code-inner js-file-line"> d. Affirmer understands and acknowledges that
Creative Commons is not a</td>
</tr>
<tr>
  <td id="L120" class="blob-num js-line-number" data-line-number="120"></td>
  <td id="LC120" class="blob-code blob-code-inner js-file-line"> party to this document and has no duty or
obligation with respect to</td>
</tr>
<tr>
  <td id="L121" class="blob-num js-line-number" data-line-number="121"></td>
  <td id="LC121" class="blob-code blob-code-inner js-file-line"> this CC0 or use of the Work.</td>
</tr>
</table>

</div>

```

```

</div>

<a href="#jump-to-line" rel="facebox[.linejump]" data-hotkey="l" style="display:none">Jump to Line</a>
<div id="jump-to-line" style="display:none">
  <form accept-charset="UTF-8" action="" class="js-jump-to-line-form" method="get"><div
style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden" value="#x2713;" /></div>
  <input class="linejump-input js-jump-to-line-field" type="text" placeholder="Jump to line&hellip;" autofocus>
  <button type="submit" class="btn">Go</button>
</form></div>

  </div>

</div><!-- /.repo-container -->
<div class="modal-backdrop"></div>
</div><!-- /.container -->
</div><!-- /.site -->

</div><!-- /.wrapper -->

  <div class="container">
<div class="site-footer" role="contentinfo">
  <ul class="site-footer-links right">
    <li><a href="https://status.github.com/" data-ga-click="Footer, go to status, text:status">Status</a></li>
    <li><a href="https://developer.github.com" data-ga-click="Footer, go to api, text:api">API</a></li>
    <li><a href="https://training.github.com" data-ga-click="Footer, go to training, text:training">Training</a></li>
    <li><a href="https://shop.github.com" data-ga-click="Footer, go to shop, text:shop">Shop</a></li>
    <li><a href="https://github.com/blog" data-ga-click="Footer, go to blog, text:blog">Blog</a></li>
    <li><a href="https://github.com/about" data-ga-click="Footer, go to about, text:about">About</a></li>
    <li><a href="https://help.github.com" data-ga-click="Footer, go to help, text:help">Help</a></li>
  </ul>

  <a href="https://github.com" aria-label="Homepage">
    <span class="mega-octicon octicon-mark-github" title="GitHub"></span>
  </a>
  <ul class="site-footer-links">
    <li>&copy; 2015 <span title="0.03402s from github-fe128-cp1-prd.iad.github.net">GitHub</span>, Inc.</li>
    <li><a href="https://github.com/site/terms" data-ga-click="Footer, go to terms, text:terms">Terms</a></li>
    <li><a href="https://github.com/site/privacy" data-ga-click="Footer, go to privacy,
text:privacy">Privacy</a></li>
    <li><a href="https://github.com/security" data-ga-click="Footer, go to security,
text:security">Security</a></li>
    <li><a href="https://github.com/contact" data-ga-click="Footer, go to contact, text:contact">Contact</a></li>
  </ul>
</div>
</div>

```

```
<div class="fullscreen-overlay js-fullscreen-overlay" id="fullscreen_overlay">
<div class="fullscreen-container js-suggester-container">
  <div class="textarea-wrap">
    <textarea name="fullscreen-contents" id="fullscreen-contents" class="fullscreen-contents js-fullscreen-contents"
placeholder=""></textarea>
    <div class="suggester-container">
      <div class="suggester fullscreen-suggester js-suggester js-navigation-container"></div>
    </div>
  </div>
</div>
<div class="fullscreen-sidebar">
  <a href="#" class="exit-fullscreen js-exit-fullscreen tooltiped tooltiped-w" aria-label="Exit Zen Mode">
    <span class="mega-octicon octicon-screen-normal"></span>
  </a>
  <a href="#" class="theme-switcher js-theme-switcher tooltiped tooltiped-w"
aria-label="Switch themes">
    <span class="octicon octicon-color-mode"></span>
  </a>
</div>
</div>
```

```
<div id="ajax-error-message" class="flash flash-error">
  <span class="octicon octicon-alert"></span>
  <a href="#" class="octicon octicon-x flash-close js-ajax-error-dismiss" aria-label="Dismiss error"></a>
  Something went wrong with that request. Please try again.
</div>
```

```
<script crossorigin="anonymous" src="https://assets-cdn.github.com/assets/frameworks-
808fcfd63c9ecba3e84453f540cb1cbafde48c6b30c1d51ebd4e67e88ff66bd.js"></script>
<script async="async" crossorigin="anonymous" src="https://assets-cdn.github.com/assets/github/index-
4f888c77edb689a0c50e2edbc2d7ae11518355eff0bfeac3ab0a110ca10eddf9.js"></script>
```

```
</body>
</html>
```

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Other contributors include:

- * Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- * Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

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// -----
// Transitive dependencies of this project determined from the
// maven pom organized by organization.
// -----

Apache Extras for Apache log4j.

From: 'an unknown organization'
- geronimo-jms_1.1_spec org.apache.geronimo.specs:geronimo-jms_1.1_spec:jar:1.0

From: 'Apache Software Foundation' (<http://www.apache.org>)
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OSXAdapter

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1.212 esapi 2.1.0

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AppleJavaExtensions

v 1.2

<http://developer.apple.com/samplecode/AppleJavaExtensions/AppleJavaExtensions.html>

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1.218 FluentD 0.12.12

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Appendix: How to Apply These Terms to Your New Libraries

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That's all there is to it!

1.222 gdk-pixbuf2 2.31.6 :3.e17

1.222.1 Available under license :

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without

changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.227 geronimo-saaj_1.3_spec 1.0.1

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1.228 geronimo-ws-metadata_2.0_spec 1.1.2

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The primary ANTLR guy:

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/**

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*

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1.233 Google App Engine SDK for Python

1.9.40

1.233.1 Available under license :

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Tornado

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Flask

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Tornado

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,

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PyYaml

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.237 gsm 1.0.13 :11.e17

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1.239 Gson 2.3.1

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 */
```

```
package com.google.gson.internal;
```

```
import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
```

```
/**
 * Contains static utility methods pertaining to primitive types and their
 * corresponding wrapper types.
 *
 * @author Kevin Bourrillion
 */
```

```
public final class Primitives {
    private Primitives() {}
```

```
/** A map from primitive types to their corresponding wrapper types. */
    private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;
```

```
/** A map from wrapper types to their corresponding primitive types. */
    private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;
```

```
// Sad that we can't use a BiMap. :(
```

```
static {
    Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>(16);
    Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>(16);
```

```

add(primToWrap, wrapToPrim, boolean.class, Boolean.class);
add(primToWrap, wrapToPrim, byte.class, Byte.class);
add(primToWrap, wrapToPrim, char.class, Character.class);
add(primToWrap, wrapToPrim, double.class, Double.class);
add(primToWrap, wrapToPrim, float.class, Float.class);
add(primToWrap, wrapToPrim, int.class, Integer.class);
add(primToWrap, wrapToPrim, long.class, Long.class);
add(primToWrap, wrapToPrim, short.class, Short.class);
add(primToWrap, wrapToPrim, void.class, Void.class);

PRIMITIVE_TO_WRAPPER_TYPE = Collections.unmodifiableMap(primToWrap);
WRAPPER_TO_PRIMITIVE_TYPE = Collections.unmodifiableMap(wrapToPrim);
}

private static void add(Map<Class<?>, Class<?>> forward,
    Map<Class<?>, Class<?>> backward, Class<?> key, Class<?> value) {
    forward.put(key, value);
    backward.put(value, key);
}

/**
 * Returns true if this type is a primitive.
 */
public static boolean isPrimitive(Type type) {
    return PRIMITIVE_TO_WRAPPER_TYPE.containsKey(type);
}

/**
 * Returns {@code true} if {@code type} is one of the nine
 * primitive-wrapper types, such as {@link Integer}.
 *
 * @see Class#isPrimitive
 */
public static boolean isWrapperType(Type type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(
        $Gson$Preconditions.checkNotNull(type));
}

/**
 * Returns the corresponding wrapper type of {@code type} if it is a primitive
 * type; otherwise returns {@code type} itself. Idempotent.
 * <pre>
 *   wrap(int.class) == Integer.class
 *   wrap(Integer.class) == Integer.class
 *   wrap(String.class) == String.class
 * </pre>
 */

```

```

public static <T> Class<T> wrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_WRAPPER_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (wrapped == null) ? type : wrapped;
}

/**
 * Returns the corresponding primitive type of {@code type} if it is a
 * wrapper type; otherwise returns {@code type} itself. Idempotent.
 * <pre>
 *   unwrap(Integer.class) == int.class
 *   unwrap(int.class) == int.class
 *   unwrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> unwrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> unwrapped = (Class<T>) WRAPPER_TO_PRIMITIVE_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (unwrapped == null) ? type : unwrapped;
}
}

```

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1.241 guava 12.0.0.wso2v1

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1.243 gwt-servlet 2.3.0

1.244 h2 1.2.140-wso2v3

1.244.1 Available under license :

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```
<!--
```

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(<http://h2database.com/html/license.html>).

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```
-->
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
<head><meta http-equiv="Content-Type" content="text/html; charset=utf-8" /><title>
License
</title><link rel="stylesheet" type="text/css" href="stylesheet.css" />
<!-- [search] { -->
<script type="text/javascript" src="navigation.js"></script>
</head><body onload="frameMe();">
<table class="content"><tr class="content"><td class="content"><div class="contentDiv">
<!-- } -->

<h1>License</h1>

<a href="#summary">
  Summary and License FAQ</a><br />
<a href="#h2_license">
  H2 License - Version 1.0</a><br />
<a href="#eclipse_license">
  Eclipse Public License - Version 1.0</a><br />

<h2 id="summary">Summary and License FAQ</h2>
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License</a>).
The changes to the MPL are <em class="u">underlined</em>.
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</p>
<ul>
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</li></ul>

<p>
However, nobody is allowed to rename H2, modify it a little, and sell it as a database engine without telling the
customers it is in fact H2.
This happened to HSQLDB: a company called 'bungisoft' copied HSQLDB, renamed it to 'RedBase', and tried to
sell it,
hiding the fact that it was in fact just HSQLDB. It seems 'bungisoft' does not exist any more, but you can use the
<a href="http://www.archive.org">Wayback Machine</a> and visit old web pages of
<code>http://www.bungisoft.com</code>.
</p><p>
About porting the source code to another language (for example C# or C++): converted source code (even if done
manually) stays under the same
```

copyright and license as the original code. The copyright of the ported source code does not (automatically) go to the person who ported the code.

</p>

<h2 id="h2_license">H2 License - Version 1.0</h2>

<h3 id = "section-1">1. Definitions</h3>

<p id = "section-1.0.1">1.0.1. "Commercial Use"

means distribution or otherwise making the Covered Code available to a third party.

</p>

<p id = "section-1.1">1.1. "Contributor"

means each entity that creates or contributes to the creation of Modifications.

</p>

<p id = "section-1.2">1.2. "Contributor Version"

means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

</p>

<p id = "section-1.3">1.3. "Covered Code"

means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

</p>

<p id = "section-1.4">1.4. "Electronic Distribution Mechanism"

means a mechanism generally accepted in the software development community for the electronic transfer of data.

</p>

<p id = "section-1.5">1.5. "Executable"

means Covered Code in any form other than Source Code.

</p>

<p id = "section-1.6">1.6. "Initial Developer"

means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

</p>

<p id = "section-1.7">1.7. "Larger Work"

means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

</p>

<p id = "section-1.8">1.8. "License"

means this document.

</p>

<p id = "section-1.8.1">1.8.1. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

</p>

<p id = "section-1.9">1.9. "Modifications"

means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

</p>

<p id = "section-1.9-a">1.9.a. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

</p>

<p id = "section-1.9-b">1.9.b. Any new file that contains any part of the Original Code or previous Modifications.

</p>

<p id = "section-1.10">1.10. "Original Code"

means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

</p>

<p id = "section-1.10.1">1.10.1. "Patent Claims"

means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

</p>

<p id = "section-1.11">1.11. "Source Code"

means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

</p>

<p id = "section-1.12">1.12. "You" (or "Your")

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</p>

<h3 id = "section-2">2. Source Code License</h3>

<h4 id="section-2.1">2.1. The Initial Developer Grant</h4>

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</p>

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</p>
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</p>
<p id = "section-2.1-c">2.1.c. the licenses granted in this Section 2.1 (a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.

</p>
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</p>

3.3. Description of Modifications

<p>

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</p>

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received the Covered Code that new knowledge has been obtained.

</p>

<p id = "section-3.4-b">3.4.b. Contributor APIs:

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</p>

<p id = "section-3.4-c">3.4.c. Representations:

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</p>

<h4 id="section-3.5">3.5. Required Notices</h4>

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</p>

<h4 id = "section-3.6">3.6. Distribution of Executable Versions</h4>

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</p>

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</p>

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</p>

<h3 id = "section-5">5. Application of this License.</h3>

<p>

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</p>

<h3 id = "section-6">6. Versions of the License.</h3>

<h4 id="section-6.1">6.1. New Versions</h4>

<p>

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</p>

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</p>

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</p>

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</p>

<h3 id = "section-8">8. Termination</h3>

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</p>

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</p>

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</p>

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</p>

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</p>

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Exhibit A

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</pre>

<h2 id="eclipse_license">Eclipse Public License - Version 1.0</h2>

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</p>

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</p><p>

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</p><p>

b) in the case of each subsequent Contributor:

</p><p>

i) changes to the Program, and

</p><p>

ii) additions to the Program;

</p><p>

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</p>

```
<!-- [close] { --></div></td></tr></table><!-- } --><!-- analytics --></body></html>
/*
```

```
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* (http://h2database.com/html/license.html).
* Initial Developer: H2 Group
*/
```

```
package org.h2.test.bench;
```

```
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.util.Random;
```

```

/**
 * This is a very simple benchmark application. One table is created
 * where rows are inserted, updated, selected (in sequential and random order),
 * and then deleted.
 */
public class BenchSimple implements Bench {

    Database database;
    int records;

    public void init(Database db, int size) throws SQLException {
        this.database = db;
        this.records = size * 60;

        db.start(this, "Init");
        db.openConnection();
        db.dropTable("TEST");
        db.setAutoCommit(false);
        int commitEvery = 1000;
        db.update("CREATE TABLE TEST(ID INT NOT NULL PRIMARY KEY, NAME VARCHAR(255))");
        db.commit();
        PreparedStatement prep = db.prepare("INSERT INTO TEST VALUES(?, ?)");
        for (int i = 0; i < records; i++) {
            prep.setInt(1, i);
            prep.setString(2, "Hello World " + i);
            db.update(prepare, "insertTest");
            if (i % commitEvery == 0) {
                db.commit();
            }
        }
        db.commit();
        db.closeConnection();
        db.end();

        // db.start(this, "Open/Close");
        // db.openConnection();
        // db.closeConnection();
        // db.end();

    }

    public void runTest() throws SQLException {
        PreparedStatement prep;
        Database db = database;
        Random random = db.getRandom();

        db.openConnection();

```

```

db.start(this, "Query (random)");
prep = db.prepare("SELECT * FROM TEST WHERE ID=?");
for (int i = 0; i < records; i++) {
    prep.setInt(1, random.nextInt(records));
    db.queryReadResult(prep);
}
db.end();

db.start(this, "Query (sequential)");
prep = db.prepare("SELECT * FROM TEST WHERE ID=?");
for (int i = 0; i < records; i++) {
    prep.setInt(1, i);
    db.queryReadResult(prep);
}
db.end();

db.start(this, "Update (random)");
prep = db.prepare("UPDATE TEST SET NAME=? WHERE ID=?");
for (int i = 0; i < records; i++) {
    prep.setString(1, "Hallo Welt");
    prep.setInt(2, i);
    db.update(pre, "updateTest");
}
db.end();

db.start(this, "Delete (sequential)");
prep = db.prepare("DELETE FROM TEST WHERE ID=?");
// delete only 50%
for (int i = 0; i < records; i += 2) {
    prep.setInt(1, i);
    db.update(pre, "deleteTest");
}
db.end();

db.closeConnection();

db.openConnection();
prep = db.prepare("SELECT * FROM TEST WHERE ID=?");
for (int i = 0; i < records; i++) {
    prep.setInt(1, random.nextInt(records));
    db.queryReadResult(prep);
}
db.logMemory(this, "Memory Usage");
db.closeConnection();
}

```

```

public String getName() {
    return "Simple";
}

}

/*
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 * Initial Developer: H2 Group
 */
package org.h2.test.jdbcx;

import java.sql.Connection;
import java.sql.SQLException;

import javax.sql.XAConnection;

import org.h2.jdbcx.JdbcDataSource;
import org.h2.test.TestBase;

/**
 * A simple XA test.
 */
public class TestXASimple extends TestBase {

    /**
     * Run just this test.
     *
     * @param a ignored
     */
    public static void main(String... a) throws Exception {
        TestBase.createCaller().init().test();
    }

    public void test() throws SQLException {

        deleteDb("xaSimple1");
        deleteDb("xaSimple2");
        org.h2.Driver.load();

        // InitialContext context = new InitialContext();
        // context.rebind(USER_TRANSACTION_JNDI_NAME, j.getUserTransaction());

        JdbcDataSource ds1 = new JdbcDataSource();
        ds1.setPassword(getPassword());
        ds1.setUser("sa");
        ds1.setURL(getURL("xaSimple1", true));
    }
}

```

```

JdbcDataSource ds2 = new JdbcDataSource();
ds2.setPassword(getPassword());
ds2.setUser("sa");
ds2.setURL(getURL("xaSimple2", true));

// UserTransaction ut = (UserTransaction)
// context.lookup("UserTransaction");
// ut.begin();

XAConnection xa1 = ds1.getXAConnection();
Connection c1 = xa1.getConnection();
c1.setAutoCommit(false);
XAConnection xa2 = ds2.getXAConnection();
Connection c2 = xa2.getConnection();
c2.setAutoCommit(false);

c1.createStatement().executeUpdate("create table test(id int, test varchar(255))");
c2.createStatement().executeUpdate("create table test(id int, test varchar(255))");

// ut.rollback();
c1.close();
c2.close();

xa1.close();
xa2.close();

// j.stop();
// System.exit(0);
deleteDb("xaSimple1");
deleteDb("xaSimple2");

}
}
/*
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* Version 1.0, and under the Eclipse Public License, Version 1.0
* (http://h2database.com/html/license.html).
* Initial Developer: H2 Group
*/
package org.h2.test.jaqu;

import static org.h2.jaqu.Function.count;
import static org.h2.jaqu.Function.isNull;
import static org.h2.jaqu.Function.length;
import static org.h2.jaqu.Function.*;
import java.math.BigDecimal;
import java.util.List;

```

```

import org.h2.jaqu.Db;
import org.h2.jaqu.Filter;
import org.h2.test.TestBase;

/**
 * This is the implementation of the 101 LINQ Samples as described in
 * http://msdn2.microsoft.com/en-us/vcsharp/aa336760.aspx
 */
public class SamplesTest extends TestBase {

    /**
     * This object represents a database (actually a connection to the database).
     */
    ///## Java 1.5 begin ##
    Db db;
    ///## Java 1.5 end ##

    /**
     * This method is called when executing this application from the command
     * line.
     *
     * @param args the command line parameters
     */
    public static void main(String... args) {
        new SamplesTest().test();
    }

    public void test() {
    ///## Java 1.5 begin ##
        db = Db.open("jdbc:h2:mem:", "sa", "sa");
        db.insertAll(Product.getList());
        db.insertAll(Customer.getList());
        db.insertAll(Order.getList());
        db.insertAll(ComplexObject.getList());
        // TODO support getters/setters
        // TODO support all relevant data types (byte[], ...)
        // TODO nested AND/OR, >, <, ...
        // TODO NOT
        // TODO +, -, *, /, ||, nested operations
        // TODO LIKE ESCAPE...
        // TODO UPDATE: FROM ... UPDATE?
        // TODO SELECT UNION
        // TODO DatabaseAdapter
        testComplexObject();
        testComplexObject2();
        testOrAndNot();
        testDelete();
        testIsNull();
    ///## Java 1.5 end ##
    }
}

```



```

testLike();
testMinMax();
testSum();
testLength();
testCount();
testGroup();
testSelectManyCompoundFrom2();
testWhereSimple4();
testSelectSimple2();
testAnonymousTypes3();
testWhereSimple2();
testWhereSimple3();
testReverseColumns();
db.close();
### Java 1.5 end ##
}

/**
 * A simple test table. The columns are in a different order than in the
 * database.
 */
public static class TestReverse {
    public String name;
    public Integer id;
}

### Java 1.5 begin ##
private void testReverseColumns() {
    db.executeUpdate("create table TestReverse(id int, name varchar, additional varchar)");
    TestReverse t = new TestReverse();
    t.id = 10;
    t.name = "Hello";
    db.insert(t);
    TestReverse check = db.from(new TestReverse()).selectFirst();
    assertEquals(t.name, check.name);
    assertEquals(t.id, check.id);
}
### Java 1.5 end ##

### Java 1.5 begin ##
private void testWhereSimple2() {

//     var soldOutProducts =
//         from p in products
//         where p.UnitsInStock == 0
//         select p;

```

```

Product p = new Product();
List<Product> soldOutProducts =
    db.from(p).
        where(p.unitsInStock).is(0).
        orderBy(p.productId).select();

assertEquals("[Chef Anton's Gumbo Mix: 0]", soldOutProducts.toString());
}

private void testWhereSimple3() {

//    var expensiveInStockProducts =
//        from p in products
//        where p.UnitsInStock > 0
//        && p.UnitPrice > 3.00M
//        select p;

Product p = new Product();
List<Product> expensiveInStockProducts =
    db.from(p).
        where(p.unitsInStock).bigger(0).
        and(p.unitPrice).bigger(30.0).
        orderBy(p.productId).select();

assertEquals("[Northwoods Cranberry Sauce: 6, Mishi Kobe Niku: 29, Ikura: 31]",
    expensiveInStockProducts.toString());
}

private void testWhereSimple4() {

//    var waCustomers =
//        from c in customers
//        where c.Region == "WA"
//        select c;

Customer c = new Customer();
List<Customer> waCustomers =
    db.from(c).
        where(c.region).is("WA").
        select();

assertEquals("[ALFKI, ANATR]", waCustomers.toString());
}

private void testSelectSimple2() {

//    var productNames =
//        from p in products

```

```

//      select p.ProductName;

Product p = new Product();
List<String> productNames =
    db.from(p).
        orderBy(p.productId).select(p.productName);

List<Product> products = Product.getList();
for (int i = 0; i < products.size(); i++) {
    assertEquals(products.get(i).productName, productNames.get(i));
}
}
}
### Java 1.5 end ##

/**
 * A result set class containing the product name and price.
 */
public static class ProductPrice {
    public String productName;
    public String category;
    public Double price;
}

### Java 1.5 begin ##
private void testAnonymousTypes3() {

//      var productInfos =
//          from p in products
//          select new {
//              p.ProductName,
//              p.Category,
//              Price = p.UnitPrice
//          };

final Product p = new Product();
List<ProductPrice> productInfos =
    db.from(p).orderBy(p.productId).
        select(new ProductPrice() { {
            productName = p.productName;
            category = p.category;
            price = p.unitPrice;
        }});

List<Product> products = Product.getList();
assertEquals(products.size(), productInfos.size());
for (int i = 0; i < products.size(); i++) {
    ProductPrice pr = productInfos.get(i);
    Product p2 = products.get(i);
}
}
}
}

```

```

        assertEquals(p2.productName, pr.productName);
        assertEquals(p2.category, pr.category);
        assertEquals(p2.unitPrice, pr.price);
    }
}
### Java 1.5 end ##

/**
 * A result set class containing customer data and the order total.
 */
public static class CustOrder {
    public String customerId;
    public Integer orderId;
    public BigDecimal total;
    public String toString() {
        return customerId + ":" + orderId + ":" + total;
    }
}

### Java 1.5 begin ##
private void testSelectManyCompoundFrom2() {

    //    var orders =
    //        from c in customers,
    //        o in c.Orders
    //        where o.Total < 500.00M
    //        select new {
    //            c.CustomerID,
    //            o.OrderID,
    //            o.Total
    //        };

    final Customer c = new Customer();
    final Order o = new Order();
    List<CustOrder> orders =
        db.from(c).
        innerJoin(o).on(c.customerId).is(o.customerId).
        where(o.total).smaller(new BigDecimal("100.00")).
        orderBy(1).
        select(new CustOrder() { {
            customerId = c.customerId;
            orderId = o.orderId;
            total = o.total;
        }});

    assertEquals("[ANATR:10308:88.80]", orders.toString());
}

```

```

private void testIsNull() {
    Product p = new Product();
    String sql = db.from(p).whereTrue(isNull(p.productName)).getSQL();
    assertEquals("SELECT * FROM Product WHERE (productName IS NULL)", sql);
}

private void testDelete() {
    Product p = new Product();
    int deleted = db.from(p).where(p.productName).like("A%").delete();
    assertEquals(1, deleted);
    deleted = db.from(p).delete();
    assertEquals(9, deleted);
    db.insertAll(Product.getList());
}

private void testOrAndNot() {
    Product p = new Product();
    String sql = db.from(p).whereTrue(not(isNull(p.productName))).getSQL();
    assertEquals("SELECT * FROM Product WHERE (NOT productName IS NULL)", sql);
    sql = db.from(p).whereTrue(not(isNull(p.productName))).getSQL();
    assertEquals("SELECT * FROM Product WHERE (NOT productName IS NULL)", sql);
    sql = db.from(p).whereTrue(db.test(p.productId).is(1)).getSQL();
    assertEquals("SELECT * FROM Product WHERE ((productId = ?))", sql);
}

private void testLength() {
    Product p = new Product();
    List<Integer> lengths =
        db.from(p).
            where(length(p.productName)).smaller(10).
            orderBy(1).
            selectDistinct(length(p.productName));
    assertEquals("[4, 5]", lengths.toString());
}

private void testSum() {
    Product p = new Product();
    Long sum = db.from(p).selectFirst(sum(p.unitsInStock));
    assertEquals(323, sum.intValue());
    Double sumPrice = db.from(p).selectFirst(sum(p.unitPrice));
    assertEquals(313.35, sumPrice.doubleValue());
}

private void testMinMax() {
    Product p = new Product();
    Integer min = db.from(p).selectFirst(min(p.unitsInStock));
    assertEquals(0, min.intValue());
    String minName = db.from(p).selectFirst(min(p.productName));
}

```

```

    assertEquals("Aniseed Syrup", minName);
    Double max = db.from(p).selectFirst(max(p.unitPrice));
    assertEquals(97.0, max.doubleValue());
}

private void testLike() {
    Product p = new Product();
    List<Product> aList = db.from(p).
        where(p.productName).like("Cha%").
        orderBy(p.productName).select();
    assertEquals("[Chai: 39, Chang: 17]", aList.toString());
}

private void testCount() {
    long count = db.from(new Product()).selectCount();
    assertEquals(10, count);
}

private void testComplexObject() {
    ComplexObject co = new ComplexObject();
    String sql = db.from(co).
        where(co.id).is(1).
        and(co.amount).is(1L).
        and(co.birthday).smaller(new java.util.Date()).
        and(co.created).smaller(java.sql.Timestamp.valueOf("2005-05-05 05:05:05")).
        and(co.name).is("hello").
        and(co.time).smaller(java.sql.Time.valueOf("23:23:23")).
        and(co.value).is(new BigDecimal("1")).getSQL();
    assertEquals("SELECT * FROM ComplexObject " +
        "WHERE id = ? " +
        "AND amount = ? " +
        "AND birthday < ? " +
        "AND created < ? " +
        "AND name = ? " +
        "AND time < ? " +
        "AND value = ?", sql);

    long count = db.from(co).
        where(co.id).is(1).
        and(co.amount).is(1L).
        and(co.birthday).smaller(new java.util.Date()).
        and(co.created).smaller(java.sql.Timestamp.valueOf("2005-05-05 05:05:05")).
        and(co.name).is("hello").
        and(co.time).smaller(java.sql.Time.valueOf("23:23:23")).
        and(co.value).is(new BigDecimal("1")).
        selectCount();
    assertEquals(1, count);
}

```

```

private void testComplexObject2() {
    testComplexObject2(1, "hello");
}

private void testComplexObject2(final int x, final String name) {
    final ComplexObject co = new ComplexObject();

    String sql = db.from(co).
        where(new Filter() { public boolean where() {
            return co.id == x
                && co.name.equals(name)
                && co.name.equals("hello");
        } }).getSQL();
    assertEquals("SELECT * FROM ComplexObject " +
        "WHERE id=? " +
        "AND ?=name " +
        "AND 'hello'=name", sql);

    long count = db.from(co).
        where(new Filter() { public boolean where() {
            return co.id == x
                && co.name.equals(name)
                && co.name.equals("hello");
        } }).selectCount();

    assertEquals(1, count);
}
### Java 1.5 end ##

/**
 * A result set class containing product groups.
 */
public static class ProductGroup {
    public String category;
    public Long productCount;
    public String toString() {
        return category + ":" + productCount;
    }
}

### Java 1.5 begin ##
private void testGroup() {

//    var orderGroups =
//        from p in products
//        group p by p.Category into g
//        select new {

```

```

//      Category = g.Key,
//      Products = g
//    };

    final Product p = new Product();
    List<ProductGroup> list =
        db.from(p).
            groupBy(p.category).
            orderBy(1).
            select(new ProductGroup() { {
                category = p.category;
                productCount = count();
            }});

    assertEquals("[Beverages:2, Condiments:5, " +
        "Meat/Poultry:1, Produce:1, Seafood:1]",
        list.toString());
}

### Java 1.5 end ##
}
/*
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 * Version 1.0, and under the Eclipse Public License, Version 1.0
 * (http://h2database.com/html/license.html).
 * Initial Developer: H2 Group
 */
package org.h2.test.jaqu;

### Java 1.5 begin ##
import static org.h2.jaqu.Define.*;

import java.math.BigDecimal;
import java.util.Arrays;
import java.util.Date;
import java.util.List;
import java.sql.Time;
import java.sql.Timestamp;
import org.h2.jaqu.Table;
### Java 1.5 end ##

/**
 * A table containing all possible data types.
 */
### Java 1.5 begin ##
public class ComplexObject implements Table {
    public Integer id;
    public Long amount;
}

```



```

public String name;
public BigDecimal value;
public Date birthday;
public Time time;
public Timestamp created;

static ComplexObject build(Integer id, boolean isNull) {
    ComplexObject obj = new ComplexObject();
    obj.id = id;
    obj.amount = isNull ? null : Long.valueOf(1);
    obj.name = isNull ? null : "hello";
    obj.value = isNull ? null : new BigDecimal("1");
    obj.birthday = isNull ? null : java.sql.Date.valueOf("2001-01-01");
    obj.time = isNull ? null : Time.valueOf("10:20:30");
    obj.created = isNull ? null : Timestamp.valueOf("2002-02-02 02:02:02");
    return obj;
}

public void define() {
    primaryKey(id);
}

public static List<ComplexObject> getList() {
    return Arrays.asList(new ComplexObject[] { build(0, true), build(1, false) });
}

}
### Java 1.5 end ###
/*
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 */
package org.h2.test.synth;

import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import org.h2.test.TestBase;
import org.h2.test.synth.sql.RandomGen;

/**
 * A test that runs random operations against a table to test the various index
 * implementations.
 */

```

```

public class TestSimpleIndex extends TestBase {

    private Connection conn;
    private Statement stat;
    private RandomGen random;

    /**
     * Run just this test.
     *
     * @param a ignored
     */
    public static void main(String... a) throws Exception {
        TestBase.createCaller().init().test();
    }

    public void test() throws SQLException {
        deleteDb("simpleIndex");
        conn = getConnection("simpleIndex");
        random = new RandomGen();
        stat = conn.createStatement();
        for (int i = 0; i < 10000; i++) {
            testIndex(i);
        }
    }

    private void testIndex(int seed) throws SQLException {
        random.setSeed(seed);
        String unique = random.nextBoolean() ? "UNIQUE " : "";
        int len = random.getInt(2) + 1;
        StringBuilder buff = new StringBuilder();
        for (int i = 0; i < len; i++) {
            if (i > 0) {
                buff.append(", ");
            }
            buff.append((char) ('A' + random.getInt(3)));
        }
        String cols = buff.toString();
        execute("CREATE MEMORY TABLE TEST_M(A INT, B INT, C INT, DATA VARCHAR(255))");
        execute("CREATE CACHED TABLE TEST_D(A INT, B INT, C INT, DATA VARCHAR(255))");
        execute("CREATE MEMORY TABLE TEST_MI(A INT, B INT, C INT, DATA VARCHAR(255))");
        execute("CREATE CACHED TABLE TEST_DI(A INT, B INT, C INT, DATA VARCHAR(255))");
        execute("CREATE " + unique + "INDEX M ON TEST_MI(" + cols + ")");
        execute("CREATE " + unique + "INDEX D ON TEST_DI(" + cols + ")");
        for (int i = 0; i < 100; i++) {
            println("i=" + i);
            testRows();
        }
        execute("DROP INDEX M");
    }
}

```

```

execute("DROP INDEX D");
execute("DROP TABLE TEST_M");
execute("DROP TABLE TEST_D");
execute("DROP TABLE TEST_MI");
execute("DROP TABLE TEST_DI");
}

private void testRows() throws SQLException {
    String a = randomValue(), b = randomValue(), c = randomValue();
    String data = a + "/" + b + "/" + c;
    String sql = "VALUES(" + a + ", " + b + ", " + c + ", " + data + ")";
    boolean em, ed;
    // if(id==73) {
    // print("halt");
    // }
    try {
        execute("INSERT INTO TEST_MI " + sql);
        em = false;
    } catch (SQLException e) {
        em = true;
    }
    try {
        execute("INSERT INTO TEST_DI " + sql);
        ed = false;
    } catch (SQLException e) {
        ed = true;
    }
    if (em != ed) {
        fail("different result: ");
    }
    if (!em) {
        execute("INSERT INTO TEST_M " + sql);
        execute("INSERT INTO TEST_D " + sql);
    }
    StringBuilder buff = new StringBuilder("WHERE 1=1");
    int len = random.getLog(10);
    for (int i = 0; i < len; i++) {
        buff.append(" AND ");
        buff.append('A' + random.getInt(3));
        switch (random.getInt(10)) {
            case 0:
                buff.append("<");
                buff.append(random.getInt(100) - 50);
                break;
            case 1:
                buff.append("<=");
                buff.append(random.getInt(100) - 50);
                break;

```

```

    case 2:
        buff.append(">");
        buff.append(random.getInt(100) - 50);
        break;
    case 3:
        buff.append(">=");
        buff.append(random.getInt(100) - 50);
        break;
    case 4:
        buff.append("<");
        buff.append(random.getInt(100) - 50);
        break;
    case 5:
        buff.append(" IS NULL");
        break;
    case 6:
        buff.append(" IS NOT NULL");
        break;
    default:
        buff.append("=");
        buff.append(random.getInt(100) - 50);
    }
}

String where = buff.toString();
String r1 = getResult("SELECT DATA FROM TEST_M " + where + " ORDER BY DATA");
String r2 = getResult("SELECT DATA FROM TEST_D " + where + " ORDER BY DATA");
String r3 = getResult("SELECT DATA FROM TEST_MI " + where + " ORDER BY DATA");
String r4 = getResult("SELECT DATA FROM TEST_DI " + where + " ORDER BY DATA");
assertEquals(r1, r2);
assertEquals(r1, r3);
assertEquals(r1, r4);
}

private String getResult(String sql) throws SQLException {
    ResultSet rs = stat.executeQuery(sql);
    StringBuilder buff = new StringBuilder();
    while (rs.next()) {
        buff.append(rs.getString(1));
        buff.append("; ");
    }
    rs.close();
    return buff.toString();
}

private String randomValue() {
    return random.getInt(10) == 0 ? "NULL" : "" + (random.getInt(100) - 50);
}

```

```

private void execute(String sql) throws SQLException {
    try {
        println(sql + ";");
        stat.execute(sql);
        println("> update count: 1");
    } catch (SQLException e) {
        println("> exception");
        throw e;
    }
}

}

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 */
package org.h2.test.synth.thread;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;

/**
 * The operation part of { @link TestMulti }.
 * Executes simple queries and updates in a table.
 */
public class TestMultiNewsSimple extends TestMultiThread {

    private static int newsCount = 10000;

    private Connection conn;

    TestMultiNewsSimple(TestMulti base) throws SQLException {
        super(base);
        conn = base.getConnection();
    }

    private static int getNewsCount() {
        return newsCount;
    }

    void first() throws SQLException {
        Connection c = base.getConnection();
        c.createStatement().execute("create table news(id identity, state int default 0, text varchar default '');");
        PreparedStatement prep = c.prepareStatement("insert into news() values()");
    }
}

```

```

    for (int i = 0; i < newsCount; i++) {
        prep.executeUpdate();
    }
    c.createStatement().execute("update news set text = 'Text' || id");
    c.close();
}

void begin() {
    // nothing to do
}

void end() throws SQLException {
    conn.close();
}

void operation() throws SQLException {
    if (random.nextInt(10) == 0) {
        conn.setAutoCommit(random.nextBoolean());
    } else if (random.nextInt(10) == 0) {
        if (random.nextBoolean()) {
            conn.commit();
        } else {
            // conn.rollback();
        }
    } else {
        if (random.nextBoolean()) {
            PreparedStatement prep = conn.prepareStatement("update news set state = ? where id = ?");
            prep.setInt(1, random.nextInt(getNewsCount()));
            prep.setInt(2, random.nextInt(10));
            prep.execute();
        } else {
            PreparedStatement prep = conn.prepareStatement("select * from news where id = ?");
            prep.setInt(1, random.nextInt(getNewsCount()));
            ResultSet rs = prep.executeQuery();
            if (!rs.next()) {
                System.out.println("No row found");
                // throw new AssertionError("No row found");
            }
            if (rs.next()) {
                System.out.println("Multiple rows found");
                // throw new AssertionError("Multiple rows found");
            }
        }
    }
}

void finalTest() {
    // nothing to do
}

```

```

    }

}
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 */
package org.h2.test.unit;

import java.io.ByteArrayOutputStream;
import java.io.File;
import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.PrintStream;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;

import org.h2.test.TestBase;
import org.h2.tools.DeleteDbFiles;
import org.h2.util.IOUtils;
import org.h2.util.StringUtils;

/**
 * Tests the sample apps.
 */
public class TestSampleApps extends TestBase {

    /**
     * Run just this test.
     *
     * @param a ignored
     */
    public static void main(String... a) throws Exception {
        TestBase.createCaller().init().test();
    }

    public void test() throws Exception {
        if (!getBaseDir().startsWith(TestBase.BASE_TEST_DIR)) {
            return;
        }
        deleteDb("optimizations");
        InputStream in = getClass().getClassLoader().getResourceAsStream("org/h2/samples/optimizations.sql");
        new File(getBaseDir()).mkdirs();
        FileOutputStream out = new FileOutputStream(getBaseDir() + "/optimizations.sql");
        IOUtils.copyAndClose(in, out);
        String url = "jdbc:h2:" + getBaseDir() + "/optimizations";

```

```

testApp("", org.h2.tools.RunScript.class, "-url", url, "-user", "sa", "-password", "sa", "-script",
    getBaseDir() + "/optimizations.sql", "-checkResults");
deleteDb("optimizations");
testApp("Compacting...\nDone.", org.h2.samples.Compact.class);
testApp("NAME: Bob Meier\n" + "EMAIL: bob.meier@abcde.abc\n"
    + "PHONE: +41123456789\n\n" + "NAME: John Jones\n" + "EMAIL: john.jones@abcde.abc\n"
    + "PHONE: +41976543210\n",
    org.h2.samples.CsvSample.class);
testApp("",
    org.h2.samples.CachedPreparedStatements.class);
testApp("2 is prime\n3 is prime\n5 is prime\n7 is prime\n11 is prime\n13 is prime\n17 is prime\n19 is
prime\n30\n20\n0/0\n0/1\n1/0\n1/1",
    org.h2.samples.Function.class);
// Not compatible with PostgreSQL JDBC driver (throws a NullPointerException)
//testApp(org.h2.samples.SecurePassword.class, null, "Joe");
// TODO test ShowProgress (percent numbers are hardware specific)
// TODO test ShutdownServer (server needs to be started in a separate
// process)
testApp("The sum is 20.00", org.h2.samples.TriggerSample.class);
testApp("Hello: 1\nWorld: 2", org.h2.samples.TriggerPassData.class);

// tools
testApp("Allows changing the database file encryption password or algorithm*",
    org.h2.tools.ChangeFileEncryption.class, "-help");
testApp("Allows changing the database file encryption password or algorithm*",
    org.h2.tools.ChangeFileEncryption.class);
testApp("Deletes all files belonging to a database.*",
    org.h2.tools.DeleteDbFiles.class, "-help");
IOUtils.delete(getBaseDir() + "/optimizations.sql");
}

```

```

private void testApp(String expected, Class< ? > clazz, String... args) throws Exception {
    DeleteDbFiles.execute("data", "test", true);
    Method m = clazz.getMethod("main", String[].class);
    PrintStream oldOut = System.out, oldErr = System.err;
    ByteArrayOutputStream buff = new ByteArrayOutputStream();
    PrintStream out = new PrintStream(buff, false, "UTF-8");
    System.setOut(out);
    System.setErr(out);
    try {
        m.invoke(null, new Object[] { args });
    } catch (InvocationTargetException e) {
        TestBase.logError("error", e.getTargetException());
    } catch (Throwable e) {
        TestBase.logError("error", e);
    }
    out.flush();
    System.setOut(oldOut);
}

```



```

System.setErr(oldErr);
String s = new String(buff.toByteArray(), "UTF-8");
s = StringUtils.replaceAll(s, "\\r\\n", "\\n");
s = s.trim();
expected = expected.trim();
if (expected.endsWith("*")) {
    expected = expected.substring(0, expected.length() - 1);
    if (!s.startsWith(expected)) {
        assertEquals(expected.trim(), s.trim());
    }
} else {
    assertEquals(expected.trim(), s.trim());
}
}
}
/*
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 */
package org.h2.test.server;

import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import org.h2.test.TestBase;

/**
 * Tests remote JDBC access with nested loops.
 * This is not allowed in some databases.
 */
public class TestNestedLoop extends TestBase {

    /**
     * Run just this test.
     *
     * @param a ignored
     */
    public static void main(String... a) throws Exception {
        TestBase.createCaller().init().test();
    }

    public void test() throws SQLException {
        deleteDb("nestedLoop");
        Connection conn = getConnection("nestedLoop");

```

```

Statement stat = conn.createStatement();
stat.execute("create table test(id int identity, name varchar)");
int len = getSize(1010, 10000);
for (int i = 0; i < len; i++) {
    stat.execute("insert into test(name) values('Hello World')");
}
ResultSet rs = stat.executeQuery("select id from test");
stat.executeQuery("select id from test");
try {
    rs.next();
    fail("Result set should be closed");
} catch (SQLException e) {
    assertKnownException(e);
}
rs = stat.executeQuery("select id from test");
stat.close();
try {
    rs.next();
    fail("Result set should be closed");
} catch (SQLException e) {
    assertKnownException(e);
}
stat = conn.createStatement();
rs = stat.executeQuery("select id from test");
Statement stat2 = conn.createStatement();
while (rs.next()) {
    int id = rs.getInt(1);
    ResultSet rs2 = stat2.executeQuery("select * from test where id=" + id);
    while (rs2.next()) {
        assertEquals(id, rs2.getInt(1));
        assertEquals("Hello World", rs2.getString(2));
    }
    rs2 = stat2.executeQuery("select * from test where id=" + id);
    while (rs2.next()) {
        assertEquals(id, rs2.getInt(1));
        assertEquals("Hello World", rs2.getString(2));
    }
}
conn.close();
deleteDb("nestedLoop");
}

}
/*
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* Initial Developer: H2 Group

```

```

*/
package org.h2.test.db;

import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.LineNumberReader;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;

import org.h2.test.TestBase;
import org.h2.util.ScriptReader;

/**
 * This test runs a simple SQL script file and compares the output with the
 * expected output.
 */
public class TestScriptSimple extends TestBase {

    private Connection conn;

    /**
     * Run just this test.
     *
     * @param a ignored
     */
    public static void main(String... a) throws Exception {
        TestBase.createCaller().init().test();
    }

    public void test() throws Exception {
        if (config.memory || config.big || config.networked) {
            return;
        }
        deleteDb("scriptSimple");
        reconnect();
        String inFile = "org/h2/test/testSimple.in.txt";
        InputStream is = getClass().getClassLoader().getResourceAsStream(inFile);
        LineNumberReader lineNumberReader = new LineNumberReader(new InputStreamReader(is, "Cp1252"));
        ScriptReader reader = new ScriptReader(lineNumberReader);
        while (true) {
            String sql = reader.readStatement();
            if (sql == null) {
                break;
            }
            sql = sql.trim();
            try {
                if ("@reconnect".equals(sql.toLowerCase())) {

```

```

        reconnect();
    } else if (sql.length() == 0) {
        // ignore
    } else if (sql.toLowerCase().startsWith("select")) {
        ResultSet rs = conn.createStatement().executeQuery(sql);
        while (rs.next()) {
            String expected = reader.readStatement().trim();
            String got = "> " + rs.getString(1);
            assertEquals(expected, got);
        }
    } else {
        conn.createStatement().execute(sql);
    }
} catch (SQLException e) {
    System.out.println(sql);
    throw e;
}
}
}
is.close();
conn.close();
deleteDb("scriptSimple");
}

private void reconnect() throws SQLException {
    if (conn != null) {
        conn.close();
    }
    conn = getConnection("scriptSimple");
}

}
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 */
package org.h2.samples;

import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.sql.Types;

import org.h2.tools.Csv;
import org.h2.tools.SimpleResultSet;
import org.h2.util.IOUtils;

```

```

/**
 * This sample application shows how to use the CSV tool
 * to write CSV (comma separated values) files, and
 * how to use the tool to read such files.
 * See also the section CSV (Comma Separated Values) Support in the Tutorial.
 */
public class CsvSample {

    /**
     * This method is called when executing this sample application from the
     * command line.
     *
     * @param args the command line parameters
     */
    public static void main(String... args) throws SQLException {
        CsvSample.write();
        CsvSample.read();
        IOUtils.delete("data/test.csv");
    }

    /**
     * Write a CSV file.
     */
    static void write() throws SQLException {
        SimpleResultSet rs = new SimpleResultSet();
        rs.addColumn("NAME", Types.VARCHAR, 255, 0);
        rs.addColumn("EMAIL", Types.VARCHAR, 255, 0);
        rs.addColumn("PHONE", Types.VARCHAR, 255, 0);
        rs.addRow("Bob Meier", "bob.meier@abcde.abc", "+41123456789");
        rs.addRow("John Jones", "john.jones@abcde.abc", "+41976543210");
        Csv.getInstance().write("data/test.csv", rs, null);
    }

    /**
     * Read a CSV file.
     */
    static void read() throws SQLException {
        ResultSet rs = Csv.getInstance().read("data/test.csv", null, null);
        ResultSetMetaData meta = rs.getMetaData();
        while (rs.next()) {
            for (int i = 0; i < meta.getColumnCount(); i++) {
                System.out.println(meta.getColumnLabel(i + 1) + ": " + rs.getString(i + 1));
            }
            System.out.println();
        }
        rs.close();
    }
}

```

```

}
/*
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 */
package org.h2.samples;

import java.math.BigDecimal;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import org.h2.api.Trigger;

/**
 * This sample application shows how to use database triggers.
 */
public class TriggerSample {

    /**
     * This method is called when executing this sample application from the
     * command line.
     *
     * @param args the command line parameters
     */
    public static void main(String... args) throws Exception {
        Class.forName("org.h2.Driver");
        Connection conn = DriverManager.getConnection("jdbc:h2:mem:", "sa", "");
        Statement stat = conn.createStatement();
        stat.execute("CREATE TABLE INVOICE(ID INT PRIMARY KEY, AMOUNT DECIMAL)");
        stat.execute("CREATE TABLE INVOICE_SUM(AMOUNT DECIMAL)");
        stat.execute("INSERT INTO INVOICE_SUM VALUES(0.0)");
        stat.execute("CREATE TRIGGER INV_INS AFTER INSERT ON INVOICE FOR EACH ROW CALL
\\org.h2.samples.TriggerSample$MyTrigger\" ");
        stat.execute("CREATE TRIGGER INV_UPD AFTER UPDATE ON INVOICE FOR EACH ROW CALL
\\org.h2.samples.TriggerSample$MyTrigger\" ");
        stat.execute("CREATE TRIGGER INV_DEL AFTER DELETE ON INVOICE FOR EACH ROW CALL
\\org.h2.samples.TriggerSample$MyTrigger\" ");

        stat.execute("INSERT INTO INVOICE VALUES(1, 10.0)");
        stat.execute("INSERT INTO INVOICE VALUES(2, 19.95)");
        stat.execute("UPDATE INVOICE SET AMOUNT=20.0 WHERE ID=2");
        stat.execute("DELETE FROM INVOICE WHERE ID=1");
    }
}

```

```

ResultSet rs;
rs = stat.executeQuery("SELECT AMOUNT FROM INVOICE_SUM");
rs.next();
System.out.println("The sum is " + rs.getBigDecimal(1));
conn.close();
}

/**
 * This class is a simple trigger implementation.
 */
public static class MyTrigger implements Trigger {

    /**
     * Initializes the trigger.
     *
     * @param conn a connection to the database
     * @param schemaName the name of the schema
     * @param triggerName the name of the trigger used in the CREATE TRIGGER
     *        statement
     * @param tableName the name of the table
     * @param before whether the fire method is called before or after the
     *        operation is performed
     * @param type the operation type: INSERT, UPDATE, or DELETE
     */
    public void init(Connection conn, String schemaName, String triggerName, String tableName, boolean before,
int type) {
        // Initializing trigger
    }

    /**
     * This method is called for each triggered action.
     *
     * @param conn a connection to the database
     * @param oldRow the old row, or null if no old row is available (for INSERT)
     * @param newRow the new row, or null if no new row is available (for DELETE)
     * @throws SQLException if the operation must be undone
     */
    public void fire(Connection conn,
        Object[] oldRow, Object[] newRow)
        throws SQLException {
        BigDecimal diff = null;
        if (newRow != null) {
            diff = (BigDecimal) newRow[1];
        }
        if (oldRow != null) {
            BigDecimal m = (BigDecimal) oldRow[1];
            diff = diff == null ? m.negate() : diff.subtract(m);
        }
    }
}

```

```

    }
    PreparedStatement prep = conn.prepareStatement(
        "UPDATE INVOICE_SUM SET AMOUNT=AMOUNT+?");
    prep.setBigDecimal(1, diff);
    prep.execute();
}

public void close() {
    // ignore
}

public void remove() {
    // ignore
}

}

}

```

1.245 H2 Database Engine 1.3.168

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1.246 h2-database-engine 1.2.140.wso2v3

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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```

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Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on

such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

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Willy Tarreau - w@lwt.eu

1.262 harfbuzz 0.9.36 :1.e17

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1.263 hazelcast 3.0.1.wso2v1

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 */
```

```
package com.hazelcast.nio;
```

```
import java.nio.channels.SelectionKey;
```

```
/**
```

```
 * @author mdogan 5/10/13
```

```
 */
```

```
final class InSelectorImpl extends AbstractIOSelector {
```

```
    InSelectorImpl(IOService ioService, int id) {
        super(ioService, ioService.getThreadPrefix() + "in-" + id);
    }
```

```
    protected void handleSelectionKey(SelectionKey sk) {
        if (sk.isValid() && sk.isReadable()) {
            final SelectionHandler handler = (SelectionHandler) sk.attachment();
            handler.handle();
        }
    }
}
```

```

}
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 */

```

```
package com.hazelcast.nio;
```

```
import java.nio.channels.SelectionKey;
```

```
/**
```

```
 * @author mdogan 5/10/13
```

```
 */
```

```
final class OutSelectorImpl extends AbstractIOSelector {
```

```

    OutSelectorImpl(IOService ioService, int id) {
        super(ioService, ioService.getThreadPrefix() + "out-" + id);
    }

```

```

    protected void handleSelectionKey(SelectionKey sk) {
        if (sk.isValid() && sk.isWritable()) {
            sk.interestOps(sk.interestOps() & ~SelectionKey.OP_WRITE);
            final SelectionHandler handler = (SelectionHandler) sk.attachment();
            handler.handle();
        }
    }

```

```
    }
```

```
 }
```

```
 /*
```

```
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```

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*/
```

```
package com.hazelcast.nio.serialization;
```

```
import com.hazelcast.nio.ObjectDataInput;  
import com.hazelcast.nio.ObjectDataOutput;
```

```
import java.io.IOException;  
import java.util.*;
```

```
/**
```

```
 * @author mdogan 12/26/12
```

```
*/
```

```
public class ClassDefinitionImpl extends BinaryClassDefinition implements ClassDefinition {
```

```
    private final List<FieldDefinition> fieldDefinitions = new ArrayList<FieldDefinition>();
```

```
    private final Map<String, FieldDefinition> fieldDefinitionsMap = new HashMap<String,  
        FieldDefinition>();
```

```
    private final Set<ClassDefinition> nestedClassDefinitions = new HashSet<ClassDefinition>();
```

```
    public ClassDefinitionImpl() {  
    }
```

```
    public ClassDefinitionImpl(int factoryId, int classId) {  
        this.factoryId = factoryId;  
        this.classId = classId;  
    }
```

```
    public void addFieldDef(FieldDefinition fd) {  
        fieldDefinitions.add(fd);  
        fieldDefinitionsMap.put(fd.getName(), fd);  
    }
```

```
    public void addClassDef(ClassDefinition cd) {  
        nestedClassDefinitions.add(cd);  
    }
```

```
    public FieldDefinition get(String name) {  
        return fieldDefinitionsMap.get(name);  
    }
```

```
    public FieldDefinition get(int fieldIndex) {  
        return fieldDefinitions.get(fieldIndex);  
    }
```

```

public Set<ClassDefinition> getNestedClassDefinitions() {
    return nestedClassDefinitions;
}

public boolean hasField(String fieldName) {
    return fieldDefinitionsMap.containsKey(fieldName);
}

public Set<String> getFieldNames() {
    return new HashSet<String>(fieldDefinitionsMap.keySet());
}

public FieldType getFieldTypes(String fieldName) {
    final FieldDefinition fd = get(fieldName);
    if (fd != null) {
        return fd.getType();
    }
    throw new IllegalArgumentException();
}

public int getFieldClassId(String fieldName) {
    final FieldDefinition fd = get(fieldName);
    if (fd != null) {
        return fd.getClassId();
    }
    throw new IllegalArgumentException();
}

public void writeData(ObjectDataOutput out) throws IOException {
    out.writeInt(factoryId);
    out.writeInt(classId);
    out.writeInt(version);
    out.writeInt(fieldDefinitions.size());
    for (FieldDefinition fieldDefinition : fieldDefinitions) {
        fieldDefinition.writeData(out);
    }
    out.writeInt(nestedClassDefinitions.size());
    for (ClassDefinition classDefinition : nestedClassDefinitions) {
        classDefinition.writeData(out);
    }
}

public void readData(ObjectDataInput in) throws IOException {
    factoryId = in.readInt();
    classId = in.readInt();
    version = in.readInt();
    int size = in.readInt();
}

```

```

for (int i = 0; i < size; i++) {
    FieldDefinitionImpl fieldDefinition = new FieldDefinitionImpl();
    fieldDefinition.readData(in);
    addFieldDef(fieldDefinition);
}
size = in.readInt();
for (int i = 0; i < size; i++) {
    ClassDefinitionImpl classDefinition = new ClassDefinitionImpl();
    classDefinition.readData(in);
    addClassDef(classDefinition);
}
}

```

```

public int getFieldCount() {
    return fieldDefinitions.size();
}

```

```

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;

    ClassDefinitionImpl that = (ClassDefinitionImpl) o;

    if (classId != that.classId) return false;
    if (version != that.version) return false;

    return true;
}

```

```

@Override
public int hashCode() {
    int result = classId;
    result = 31 * result + version;
    return result;
}

```

```

@Override
public String toString() {
    final StringBuilder sb = new StringBuilder();
    sb.append("ClassDefinition");
    sb.append("{ factoryId=").append(factoryId);
    sb.append(", classId=").append(classId);
    sb.append(", version=").append(version);
    sb.append(", fieldDefinitions=").append(fieldDefinitions);
    sb.append('}');
    return sb.toString();
}

```

```

}
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 */

package com.hazelcast.nio.serialization;

import com.hazelcast.core.HazelcastInstanceNotActiveException;
import com.hazelcast.core.ManagedContext;
import com.hazelcast.core.PartitionAware;
import com.hazelcast.instance.OutOfMemoryErrorDispatcher;
import com.hazelcast.nio.*;
import com.hazelcast.nio.serialization.ConstantSerializers.*;
import com.hazelcast.nio.serialization.DefaultSerializers.*;

import java.io.Externalizable;
import java.io.InputStream;
import java.io.OutputStream;
import java.io.Serializable;
import java.math.BigDecimal;
import java.math.BigInteger;
import java.nio.ByteOrder;
import java.util.*;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentLinkedQueue;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.atomic.AtomicReference;

public final class SerializationServiceImpl implements SerializationService {

    private static final int OUTPUT_BUFFER_SIZE = 4 * 1024;
    private static final int CONSTANT_SERIALIZERS_SIZE =
        SerializationConstants.CONSTANT_SERIALIZERS_LENGTH;

    private final IdentityHashMap<Class, SerializerAdapter> constantTypesMap
        = new IdentityHashMap<Class, SerializerAdapter>(CONSTANT_SERIALIZERS_SIZE);

```



```

private final SerializerAdapter[] constantTypeIds = new SerializerAdapter[CONSTANT_SERIALIZERS_SIZE];

private final ConcurrentMap<Class, SerializerAdapter> typeMap = new ConcurrentHashMap<Class,
SerializerAdapter>();
private final ConcurrentMap<Integer, SerializerAdapter> idMap = new ConcurrentHashMap<Integer,
SerializerAdapter>();
private final AtomicReference<SerializerAdapter> global = new AtomicReference<SerializerAdapter>();

private final InputOutputFactory inputOutputFactory;
private final Queue<BufferObjectDataOutput> outputPool = new
ConcurrentLinkedQueue<BufferObjectDataOutput>();
private final PortableSerializer portableSerializer;
private final SerializerAdapter dataSerializerAdapter;
private final SerializerAdapter portableSerializerAdapter;
private final ClassLoader classLoader;
private final ManagedContext managedContext;
private final SerializationContextImpl serializationContext;

private volatile boolean active = true;

SerializationServiceImpl(InputOutputFactory inputOutputFactory, int version, ClassLoader classLoader,
Map<Integer, ? extends DataSerializableFactory> dataSerializableFactories,
Map<Integer, ? extends PortableFactory> portableFactories,
Collection<ClassDefinition> classDefinitions, boolean checkClassDefErrors,
ManagedContext managedContext, boolean enableCompression, boolean enableSharedObject) {

    this.inputOutputFactory = inputOutputFactory;
    this.classLoader = classLoader;
    this.managedContext = managedContext;
    PortableHookLoader loader = new PortableHookLoader(portableFactories, classLoader);
    serializationContext = new SerializationContextImpl(this, loader.getFactories().keySet(), version);
    for (ClassDefinition cd : loader.getDefinitions()) {
        serializationContext.registerClassDefinition(cd);
    }

    dataSerializerAdapter = new StreamSerializerAdapter(this, new DataSerializer(dataSerializableFactories,
classLoader));
    portableSerializer = new PortableSerializer(serializationContext, loader.getFactories());
    portableSerializerAdapter = new StreamSerializerAdapter(this, portableSerializer);

    registerConstant(DataSerializable.class, dataSerializerAdapter);
    registerConstant(Portable.class, portableSerializerAdapter);
    registerConstant(Byte.class, new ByteSerializer());
    registerConstant(Boolean.class, new BooleanSerializer());
    registerConstant(Character.class, new CharSerializer());
    registerConstant(Short.class, new ShortSerializer());
    registerConstant(Integer.class, new IntegerSerializer());
    registerConstant(Long.class, new LongSerializer());

```

```

registerConstant(Float.class, new FloatSerializer());
registerConstant(Double.class, new DoubleSerializer());
registerConstant(byte[].class, new TheByteArraySerializer());
registerConstant(char[].class, new CharArraySerializer());
registerConstant(short[].class, new ShortArraySerializer());
registerConstant(int[].class, new IntegerArraySerializer());
registerConstant(long[].class, new LongArraySerializer());
registerConstant(float[].class, new FloatArraySerializer());
registerConstant(double[].class, new DoubleArraySerializer());
registerConstant(String.class, new StringSerializer());
safeRegister(Date.class, new DateSerializer());
safeRegister(BigInteger.class, new BigIntegerSerializer());
safeRegister(BigDecimal.class, new BigDecimalSerializer());
safeRegister(Externalizable.class, new Externalizer(enableCompression));
safeRegister(Serializable.class, new ObjectSerializer(enableSharedObject, enableCompression));
safeRegister(Class.class, new ClassSerializer());

registerClassDefinitions(classDefinitions, checkClassDefErrors);
}

private void registerClassDefinitions(final Collection<ClassDefinition> classDefinitions, boolean
checkClassDefErrors) {
    final Map<Integer, ClassDefinition> classDefMap = new HashMap<Integer,
ClassDefinition>(classDefinitions.size());
    for (ClassDefinition cd : classDefinitions) {
        if (classDefMap.containsKey(cd.getClassId())) {
            throw new HazelcastSerializationException("Duplicate registration found for class-id[" + cd.getClassId() +
"!"]);
        }
        classDefMap.put(cd.getClassId(), cd);
    }
    for (ClassDefinition classDefinition : classDefinitions) {
        registerClassDefinition(classDefinition, classDefMap, checkClassDefErrors);
    }
}

private void registerClassDefinition(ClassDefinition cd, Map<Integer, ClassDefinition> classDefMap, boolean
checkClassDefErrors) {
    for (int i = 0; i < cd.getFieldCount(); i++) {
        FieldDefinition fd = cd.get(i);
        if (fd.getType() == FieldType.PORTABLE || fd.getType() == FieldType.PORTABLE_ARRAY) {
            int classId = fd.getClassId();
            ClassDefinition nestedCd = classDefMap.get(classId);
            if (nestedCd != null) {
                ((ClassDefinitionImpl) cd).addClassDef(nestedCd);
                registerClassDefinition(nestedCd, classDefMap, checkClassDefErrors);
                serializationContext.registerClassDefinition(nestedCd);
            } else if (checkClassDefErrors) {

```

```

        throw new HazelcastSerializationException("Could not find registered ClassDefinition for class-id: " +
classId);
    }
}
}
serializationContext.registerClassDefinition(cd);
}

```

```
@SuppressWarnings("unchecked")
```

```
public Data toData(final Object obj) {
```

```
    if (obj == null) {
```

```
        return null;
```

```
    }
```

```
    if (obj instanceof Data) {
```

```
        return (Data) obj;
```

```
    }
```

```
    try {
```

```
        final SerializerAdapter serializer = serializerFor(obj.getClass());
```

```
        if (serializer == null) {
```

```
            if (active) {
```

```
                throw new HazelcastSerializationException("There is no suitable serializer for " + obj.getClass());
```

```
            }
```

```
            throw new HazelcastInstanceNotActiveException();
```

```
        }
```

```
        final byte[] bytes = serializer.write(obj);
```

```
        final Data data = new Data(serializer.getTypeId(), bytes);
```

```
        if (obj instanceof Portable) {
```

```
            final Portable portable = (Portable) obj;
```

```
            data.classDefinition = serializationContext.lookup(portable.getFactoryId(), portable.getClassId());
```

```
        }
```

```
        if (obj instanceof PartitionAware) {
```

```
            final Object pk = ((PartitionAware) obj).getPartitionKey();
```

```
            final Data partitionKey = toData(pk);
```

```
            data.partitionHash = (partitionKey == null) ? -1 : partitionKey.getPartitionHash();
```

```
        }
```

```
        return data;
```

```
    } catch (Throwable e) {
```

```
        handleException(e);
```

```
    }
```

```
    return null;
```

```
}
```

```
public Object toObject(final Data data) {
```

```
    if (data == null || data.bufferSize() == 0) {
```

```
        return null;
```

```
    }
```

```
    try {
```

```
        final int typeId = data.type;
```

```

final SerializerAdapter serializer = serializerFor(typeId);
if (serializer == null) {
    if (active) {
        throw new HazelcastSerializationException("There is no suitable de-serializer for type " + typeId);
    }
    throw new HazelcastInstanceNotActiveException();
}
if (typeId == SerializationConstants.CONSTANT_TYPE_PORTABLE) {
    serializationContext.registerClassDefinition(data.classDefinition);
}
Object obj = serializer.read(data);
if (managedContext != null) {
    obj = managedContext.initialize(obj);
}
return obj;
} catch (Throwable e) {
    handleException(e);
}
return null;
}

```

```

public void writeObject(final ObjectDataOutput out, final Object obj) {
    final boolean isNull = obj == null;
    try {
        out.writeBoolean(isNull);
        if (isNull) {
            return;
        }
        final SerializerAdapter serializer = serializerFor(obj.getClass());
        if (serializer == null) {
            if (active) {
                throw new HazelcastSerializationException("There is no suitable serializer for " + obj.getClass());
            }
            throw new HazelcastInstanceNotActiveException();
        }
        out.writeInt(serializer.getTypeId());
        if (obj instanceof Portable) {
            final Portable portable = (Portable) obj;
            ClassDefinition classDefinition = serializationContext.lookupOrRegisterClassDefinition(portable);
            classDefinition.writeData(out);
        }
        serializer.write(out, obj);
    } catch (Throwable e) {
        handleException(e);
    }
}

```

```

public Object readObject(final ObjectDataInput in) {

```

```

try {
    final boolean isNull = in.readBoolean();
    if (isNull) {
        return null;
    }
    final int typeId = in.readInt();
    final SerializerAdapter serializer = serializerFor(typeId);
    if (serializer == null) {
        if (active) {
            throw new HazelcastSerializationException("There is no suitable de-serializer for type " + typeId);
        }
        throw new HazelcastInstanceNotActiveException();
    }
    if (typeId == SerializationConstants.CONSTANT_TYPE_PORTABLE && in instanceof
PortableContextAwareInputStream) {
        ClassDefinition classDefinition = new ClassDefinitionImpl();
        classDefinition.readData(in);
        classDefinition = serializationContext.registerClassDefinition(classDefinition);
        PortableContextAwareInputStream ctxIn = (PortableContextAwareInputStream) in;
        ctxIn.setClassDefinition(classDefinition);
    }
    Object obj = serializer.read(in);
    if (managedContext != null) {
        obj = managedContext.initialize(obj);
    }
    return obj;
} catch (Throwable e) {
    handleException(e);
}
return null;
}

private void handleException(Throwable e) {
    if (e instanceof OutOfMemoryError) {
        OutOfMemoryErrorDispatcher.onOutOfMemory((OutOfMemoryError) e);
        return;
    }
    if (e instanceof HazelcastSerializationException) {
        throw (HazelcastSerializationException) e;
    }
    throw new HazelcastSerializationException(e);
}

BufferObjectDataOutput pop() {
    BufferObjectDataOutput out = outputPool.poll();
    if (out == null) {
        out = inputOutputFactory.createOutput(OUTPUT_BUFFER_SIZE, this);
    }
}

```

```

    return out;
}

void push(BufferObjectDataOutput out) {
    if (out != null) {
        out.clear();
        outputPool.offer(out);
    }
}

public BufferObjectDataInput createObjectDataInput(byte[] data) {
    return inputOutputFactory.createInput(data, this);
}

public BufferObjectDataInput createObjectDataInput(Data data) {
    return inputOutputFactory.createInput(data, this);
}

public BufferObjectDataOutput createObjectDataOutput(int size) {
    return inputOutputFactory.createOutput(size, this);
}

public ObjectDataOutputStream createObjectDataOutputStream(OutputStream out) {
    return new ObjectDataOutputStream(out, this);
}

public ObjectDataInputStream createObjectDataInputStream(InputStream in) {
    return new ObjectDataInputStream(in, this);
}

public ObjectDataOutputStream createObjectDataOutputStream(OutputStream out, ByteOrder order) {
    return new ObjectDataOutputStream(out, this, order);
}

public ObjectDataInputStream createObjectDataInputStream(InputStream in, ByteOrder order) {
    return new ObjectDataInputStream(in, this, order);
}

public void register(Class type, Serializer serializer) {
    if (type == null) {
        throw new IllegalArgumentException("Class type information is required!");
    }
    if (serializer.getTypeId() <= 0) {
        throw new IllegalArgumentException("Type id must be positive! Current: " + serializer.getTypeId() + ",
Serializer: " + serializer);
    }
    safeRegister(type, createSerializerAdapter(serializer));
}

```

```

public void registerGlobal(final Serializer serializer) {
    if (!global.compareAndSet(null, createSerializerAdapter(serializer))) {
        throw new IllegalStateException("Fallback serializer is already registered!");
    }
}

private SerializerAdapter createSerializerAdapter(Serializer serializer) {
    final SerializerAdapter s;
    if (serializer instanceof StreamSerializer) {
        s = new StreamSerializerAdapter(this, (StreamSerializer) serializer);
    } else if (serializer instanceof ByteArraySerializer) {
        s = new ByteArraySerializerAdapter((ByteArraySerializer) serializer);
    } else {
        throw new IllegalArgumentException("Serializer must be instance of either StreamSerializer or
ByteArraySerializer!");
    }
    return s;
}

public SerializerAdapter serializerFor(final Class type) {
    if (DataSerializable.class.isAssignableFrom(type)) {
        return dataSerializerAdapter;
    } else if (Portable.class.isAssignableFrom(type)) {
        return portableSerializerAdapter;
    } else {
        final SerializerAdapter serializer;
        if ((serializer = constantTypesMap.get(type)) != null) {
            return serializer;
        }
    }
    SerializerAdapter serializer = typeMap.get(type);
    if (serializer == null) {
        // look for super classes
        Class typeSuperclass = type.getSuperclass();
        final Set<Class> interfaces = new LinkedHashSet<Class>(5);
        getInterfaces(type, interfaces);
        while (typeSuperclass != null) {
            if ((serializer = registerFromSuperType(type, typeSuperclass)) != null) {
                break;
            }
            getInterfaces(typeSuperclass, interfaces);
            typeSuperclass = typeSuperclass.getSuperclass();
        }
        if (serializer == null) {
            // look for interfaces
            for (Class typeInterface : interfaces) {
                if ((serializer = registerFromSuperType(type, typeInterface)) != null) {

```

```

        break;
    }
}
}
if (serializer == null && (serializer = global.get()) != null) {
    safeRegister(type, serializer);
}
}
return serializer;
}

private static void getInterfaces(Class clazz, Set<Class> interfaces) {
    final Class[] classes = clazz.getInterfaces();
    if (classes.length > 0) {
        Collections.addAll(interfaces, classes);
        for (Class cl : classes) {
            getInterfaces(cl, interfaces);
        }
    }
}

private SerializerAdapter registerFromSuperType(final Class type, final Class superType) {
    final SerializerAdapter serializer = typeMap.get(superType);
    if (serializer != null) {
        safeRegister(type, serializer);
    }
    return serializer;
}

private void registerConstant(Class type, Serializer serializer) {
    registerConstant(type, createSerializerAdapter(serializer));
}

private void registerConstant(Class type, SerializerAdapter serializer) {
    constantTypesMap.put(type, serializer);
    constantTypeIds[indexForDefaultType(serializer.getTypeId())] = serializer;
}

private void safeRegister(final Class type, final Serializer serializer) {
    safeRegister(type, createSerializerAdapter(serializer));
}

private void safeRegister(final Class type, final SerializerAdapter serializer) {
    if (constantTypesMap.containsKey(type)) {
        throw new IllegalArgumentException("[ " + type + " ] serializer cannot be overridden!");
    }
    SerializerAdapter current = typeMap.putIfAbsent(type, serializer);
    if (current != null && current.getImpl().getClass() != serializer.getImpl().getClass()) {

```



```

        throw new IllegalStateException("Serializer[" + current + "] has been already registered for type: " + type);
    }
    current = idMap.putIfAbsent(serializer.getTypeId(), serializer);
    if (current != null && current.getImpl().getClass() != serializer.getImpl().getClass()) {
        throw new IllegalStateException("Serializer [" + current + "] has been already registered for type-id: "
            + serializer.getTypeId());
    }
}

public SerializerAdapter serializerFor(final int typeId) {
    if (typeId < 0) {
        final int index = indexForDefaultType(typeId);
        if (index < CONSTANT_SERIALIZERS_SIZE) {
            return constantTypeIds[index];
        }
    }
    return idMap.get(typeId);
}

private int indexForDefaultType(final int typeId) {
    return -typeId - 1;
}

public SerializationContext getSerializationContext() {
    return serializationContext;
}

public PortableReader createPortableReader(Data data) {
    return new DefaultPortableReader(portableSerializer, createObjectDataInput(data), data.getClassDefinition());
}

public void destroy() {
    active = false;
    for (SerializerAdapter serializer : typeMap.values()) {
        serializer.destroy();
    }
    typeMap.clear();
    idMap.clear();
    global.set(null);
    constantTypesMap.clear();
    for (BufferObjectDataOutput output : outputPool) {
        IOUtil.closeResource(output);
    }
    outputPool.clear();
}

public ClassLoader getClassLoader() {
    return classLoader;
}

```

```

    }

    public ManagedContext getManagedContext() {
        return managedContext;
    }
}
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 */

package com.hazelcast.nio.serialization;

import com.hazelcast.core.ManagedContext;
import com.hazelcast.nio.BufferObjectDataOutput;

import java.io.DataOutput;
import java.io.IOException;
import java.util.Collection;
import java.util.HashMap;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.zip.DataFormatException;
import java.util.zip.Deflater;
import java.util.zip.Inflater;

/**
 * @author mdogan 7/29/13
 */
final class SerializationContextImpl implements SerializationContext {

    final int version;
    final Map<Integer, PortableContext> portableContextMap;
    final SerializationServiceImpl serializationService;

    SerializationContextImpl(SerializationServiceImpl serializationService, Collection<Integer> portableFactories, int

```

```

version) {
    this.serializationService = serializationService;
    this.version = version;
    final Map<Integer, PortableContext> portableMap = new HashMap<Integer, PortableContext>();
    for (int factoryId : portableFactories) {
        portableMap.put(factoryId, new PortableContext());
    }
    portableContextMap = portableMap; // do not modify!
}

public ClassDefinition lookup(int factoryId, int classId) {
    return getPortableContext(factoryId).lookup(classId, version);
}

public ClassDefinition lookup(int factoryId, int classId, int version) {
    return getPortableContext(factoryId).lookup(classId, version);
}

public ClassDefinition createClassDefinition(int factoryId, final byte[] compressedBinary) throws IOException {
    return getPortableContext(factoryId).createClassDefinition(compressedBinary);
}

public ClassDefinition registerClassDefinition(final ClassDefinition cd) {
    return getPortableContext(cd.getFactoryId()).registerClassDefinition(cd);
}

public ClassDefinition lookupOrRegisterClassDefinition(Portable p) throws IOException {
    ClassDefinition cd = lookup(p.getFactoryId(), p.getClassId());
    if (cd == null) {
        ClassDefinitionWriter classDefinitionWriter = new ClassDefinitionWriter(this, p.getFactoryId(),
p.getClassId());
        p.writePortable(classDefinitionWriter);
        cd = classDefinitionWriter.registerAndGet();
    }
    return cd;
}

private void registerNestedDefinitions(ClassDefinitionImpl cd) {
    Collection<ClassDefinition> nestedDefinitions = cd.getNestedClassDefinitions();
    for (ClassDefinition classDefinition : nestedDefinitions) {
        final ClassDefinitionImpl nestedCD = (ClassDefinitionImpl) classDefinition;
        registerClassDefinition(nestedCD);
        registerNestedDefinitions(nestedCD);
    }
}

private PortableContext getPortableContext(int factoryId) {
    final PortableContext ctx = portableContextMap.get(factoryId);

```

```

    if (ctx == null) {
        throw new HazelcastSerializationException("Could not find PortableFactory for factoryId: " + factoryId);
    }
    return ctx;
}

public int getVersion() {
    return version;
}

public ManagedContext getManagedContext() {
    return serializationService.getManagedContext();
}

private class PortableContext {

    final ConcurrentMap<Long, ClassDefinitionImpl> versionedDefinitions = new ConcurrentHashMap<Long,
ClassDefinitionImpl>();

    ClassDefinition lookup(int classId, int version) {
        return versionedDefinitions.get(combineToLong(classId, version));
    }

    ClassDefinition createClassDefinition(byte[] compressedBinary) throws IOException {
        if (compressedBinary == null || compressedBinary.length == 0) {
            throw new IOException("Illegal class-definition binary! ");
        }
        final BufferObjectDataOutput out = serializationService.pop();
        final byte[] binary;
        try {
            decompress(compressedBinary, out);
            binary = out.toByteArray();
        } finally {
            serializationService.push(out);
        }
        final ClassDefinitionImpl cd = new ClassDefinitionImpl();
        cd.readData(serializationService.createObjectDataInput(binary));
        cd.setBinary(compressedBinary);
        final ClassDefinitionImpl currentCD = versionedDefinitions.putIfAbsent(combineToLong(cd.classId,
getVersion()), cd);
        if (currentCD == null) {
            registerNestedDefinitions(cd);
            return cd;
        } else {
            return currentCD;
        }
    }
}

```

```

ClassDefinition registerClassDefinition(ClassDefinition cd) {
    if (cd == null) return null;
    final ClassDefinitionImpl cdImpl = (ClassDefinitionImpl) cd;
    if (cdImpl.getVersion() < 0) {
        cdImpl.version = getVersion();
    }
    if (cdImpl.getBinary() == null) {
        final BufferObjectDataOutput out = serializationService.pop();
        try {
            cdImpl.writeData(out);
            final byte[] binary = out.toByteArray();
            out.clear();
            compress(binary, out);
            cdImpl.setBinary(out.toByteArray());
        } catch (IOException e) {
            throw new HazelcastSerializationException(e);
        } finally {
            serializationService.push(out);
        }
    }
    final long versionedClassId = combineToLong(cdImpl.getClassId(), cdImpl.getVersion());
    final ClassDefinitionImpl currentClassDef = versionedDefinitions.putIfAbsent(versionedClassId, cdImpl);
    if (currentClassDef == null) {
        registerNestedDefinitions(cdImpl);
        return cd;
    }
    return currentClassDef;
}
}

```

```

static void compress(byte[] input, DataOutput out) throws IOException {
    Deflater deflater = new Deflater();
    deflater.setLevel(Deflater.DEFAULT_COMPRESSION);
    deflater.setStrategy(Deflater.FILTERED);
    deflater.setInput(input);
    deflater.finish();
    byte[] buf = new byte[1024];
    while (!deflater.finished()) {
        int count = deflater.deflate(buf);
        out.write(buf, 0, count);
    }
    deflater.end();
}

```

```

static void decompress(byte[] compressedData, DataOutput out) throws IOException {
    Inflater inflater = new Inflater();
    inflater.setInput(compressedData);
    byte[] buf = new byte[1024];
}

```

```

while (!inflater.finished()) {
    try {
        int count = inflater.inflate(buf);
        out.write(buf, 0, count);
    } catch (DataFormatException e) {
        throw new IOException(e);
    }
}
inflater.end();
}

static long combineToLong(int x, int y) {
    return ((long) x << 32) | ((long) y & 0xFFFFFFFFL);
}

static int extractInt(long value, boolean lowerBits) {
    return (lowerBits) ? (int) value : (int) (value >> 32);
}
}
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 */

package com.hazelcast.nio.serialization;

import com.hazelcast.nio.ObjectDataInput;
import com.hazelcast.nio.ObjectDataOutput;

import java.io.IOException;

/**
 * @author mdogan 12/26/12
 */
class FieldDefinitionImpl implements DataSerializable, FieldDefinition {

    int index;

```

```

String fieldName;
FieldType type;
int classId;
int factoryId;

FieldDefinitionImpl() {
}

FieldDefinitionImpl(int index, String fieldName, FieldType type) {
    this(index, fieldName, type, 0, Data.NO_CLASS_ID);
}

FieldDefinitionImpl(int index, String fieldName, FieldType type, int factoryId, int classId) {
    this.classId = classId;
    this.type = type;
    this.fieldName = fieldName;
    this.index = index;
    this.factoryId = factoryId;
}

public FieldType getType() {
    return type;
}

public String getName() {
    return fieldName;
}

public int getIndex() {
    return index;
}

public int getFactoryId() {
    return factoryId;
}

public int getClassId() {
    return classId;
}

public void writeData(ObjectDataOutput out) throws IOException {
    out.writeInt(index);
    out.writeUTF(fieldName);
    out.writeByte(type.getId());
    out.writeInt(factoryId);
    out.writeInt(classId);
}

```

```

public void readData(ObjectDataInput in) throws IOException {
    index = in.readInt();
    fieldName = in.readUTF();
    type = FieldType.get(in.readByte());
    factoryId = in.readInt();
    classId = in.readInt();
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;

    FieldDefinitionImpl that = (FieldDefinitionImpl) o;

    if (classId != that.classId) return false;
    if (factoryId != that.factoryId) return false;
    if (fieldName != null ? !fieldName.equals(that.fieldName) : that.fieldName != null) return false;
    if (type != that.type) return false;

    return true;
}

@Override
public int hashCode() {
    int result = fieldName != null ? fieldName.hashCode() : 0;
    result = 31 * result + (type != null ? type.hashCode() : 0);
    result = 31 * result + classId;
    result = 31 * result + factoryId;
    return result;
}

@Override
public String toString() {
    final StringBuilder sb = new StringBuilder("FieldDefinitionImpl{ ");
    sb.append("index=").append(index);
    sb.append(", fieldName=").append(fieldName).append("\");
    sb.append(", type=").append(type);
    sb.append(", classId=").append(classId);
    sb.append(", factoryId=").append(factoryId).append("\");
    sb.append('}');
    return sb.toString();
}
}
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```



```

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*/

```

```
package com.hazelcast.map.merge;
```

```
import com.hazelcast.core.EntryView;
import com.hazelcast.nio.serialization.DataSerializable;
```

```
public interface MapMergePolicy extends DataSerializable {
```

```

/**
 * Returns the value of the entry after the merge
 * of entries with the same key. Returning value can be
 * null. You should consider the case where existingEntry is null.
 *
 * @param mapName    name of the map
 * @param mergingEntry entry merging into the destination cluster
 * @param existingEntry existing entry in the destination cluster
 * @return final value of the entry. If returns null then entry will be removed.
 */
Object merge(String mapName, EntryView mergingEntry, EntryView existingEntry);

```

```

}
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*/

```

```

package com.hazelcast.map.merge;

import com.hazelcast.core.EntryView;
import com.hazelcast.nio.ObjectDataInput;
import com.hazelcast.nio.ObjectDataOutput;
import com.hazelcast.nio.serialization.DataSerializable;

import java.io.IOException;

/**
 * Built-in MergePolicy implementation.
 * <p/>
 * HigherHitsMapMergePolicy causes the merging entry to be merged from source to destination map
 * if source entry has higher hits than the destination one.
 *
 * <p/>
 *
 * @see com.hazelcast.map.merge.MapMergePolicy
 * @see com.hazelcast.map.merge.PutIfAbsentMapMergePolicy
 * @see com.hazelcast.map.merge.LatestUpdateMapMergePolicy
 * @see com.hazelcast.map.merge.PassThroughMergePolicy
 *
 */
public class HigherHitsMapMergePolicy implements MapMergePolicy, DataSerializable {

    public Object merge(String mapName, EntryView mergingEntry, EntryView existingEntry) {
        if(mergingEntry.getHits() > existingEntry.getHits())
            return mergingEntry.getValue();
        return existingEntry.getValue();
    }

    @Override
    public void writeData(ObjectDataOutput out) throws IOException {
    }

    @Override
    public void readData(ObjectDataInput in) throws IOException {
    }
}

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```

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* limitations under the License.
*/

```

```
package com.hazelcast.map.merge;
```

```

import com.hazelcast.core.EntryView;
import com.hazelcast.nio.ObjectDataInput;
import com.hazelcast.nio.ObjectDataOutput;
import com.hazelcast.nio.serialization.DataSerializable;

```

```
import java.io.IOException;
```

```

/**
 * Built-in MergePolicy implementation.
 * <p/>
 * PutIfAbsentMapMergePolicy causes the merging entry to be merged from source to destination map
 * if it does not exist in the destination map.
 *
 * <p/>
 *
 * @see com.hazelcast.map.merge.HigherHitsMapMergePolicy
 * @see com.hazelcast.map.merge.LatestUpdateMapMergePolicy
 * @see com.hazelcast.map.merge.PassThroughMergePolicy
 * @see com.hazelcast.map.merge.MapMergePolicy
 *
 */

```

```
public class PutIfAbsentMapMergePolicy implements MapMergePolicy, DataSerializable {
```

```

    public Object merge(String mapName, EntryView mergingEntry, EntryView existingEntry) {
        if(existingEntry.getValue() == null) {
            return mergingEntry.getValue();
        }
        return existingEntry.getValue();
    }

```

```

    @Override
    public void writeData(ObjectDataOutput out) throws IOException {
    }

```

```

    @Override
    public void readData(ObjectDataInput in) throws IOException {
    }

```

```

}
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 * limitations under the License.
 */

package com.hazelcast.map.merge;

import com.hazelcast.core.EntryView;
import com.hazelcast.nio.ObjectDataInput;
import com.hazelcast.nio.ObjectDataOutput;
import com.hazelcast.nio.serialization.DataSerializable;

import java.io.IOException;

/**
 * Built-in MergePolicy implementation.
 * <p/>
 * LatestUpdateMapMergePolicy causes the merging entry to be merged from source to destination map
 * if source entry has updated more recently than the destination entry.
 * <p/>
 * @see com.hazelcast.map.merge.MapMergePolicy
 * @see com.hazelcast.map.merge.PutIfAbsentMapMergePolicy
 * @see com.hazelcast.map.merge.HigherHitsMapMergePolicy
 * @see com.hazelcast.map.merge.PassThroughMergePolicy
 */
public class LatestUpdateMapMergePolicy implements MapMergePolicy {

    public Object merge(String mapName, EntryView mergingEntry, EntryView existingEntry) {
        if(mergingEntry.getLastUpdateTime() > existingEntry.getLastUpdateTime())
            return mergingEntry.getValue();
        return existingEntry.getValue();
    }
}

```

```

    @Override
    public void writeData(ObjectDataOutput out) throws IOException {
    }

    @Override
    public void readData(ObjectDataInput in) throws IOException {
    }
}
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 */

package com.hazelcast.map.merge;

import com.hazelcast.core.EntryView;
import com.hazelcast.nio.ObjectDataInput;
import com.hazelcast.nio.ObjectDataOutput;

import java.io.IOException;

/**
 * Built-in MergePolicy implementation.
 * <p/>
 * PassThroughMergePolicy causes the merging entry to be merged from source to destination map
 * if source entry has updated more recently than the destination entry.
 * <p/>
 * @see com.hazelcast.map.merge.MapMergePolicy
 * @see com.hazelcast.map.merge.PutIfAbsentMapMergePolicy
 * @see com.hazelcast.map.merge.HigherHitsMapMergePolicy
 * @see com.hazelcast.map.merge.LatestUpdateMapMergePolicy
 */
public class PassThroughMergePolicy implements MapMergePolicy {

```

```

@Override
public Object merge(String mapName, EntryView mergingEntry, EntryView existingEntry) {
    return mergingEntry == null ? existingEntry.getValue() : mergingEntry.getValue();
}

@Override
public void writeData(ObjectDataOutput out) throws IOException {
}

@Override
public void readData(ObjectDataInput in) throws IOException {
}
}
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 */

package com.hazelcast.map.wan;

import com.hazelcast.core.EntryView;
import com.hazelcast.map.merge.MapMergePolicy;
import com.hazelcast.nio.ObjectDataInput;
import com.hazelcast.nio.ObjectDataOutput;
import com.hazelcast.nio.serialization.DataSerializable;
import com.hazelcast.wan.ReplicationEventObject;

import java.io.IOException;

public class MapReplicationUpdate implements ReplicationEventObject,DataSerializable {

    String mapName;
    MapMergePolicy mergePolicy;
    EntryView entryView;

    public MapReplicationUpdate() {

```

```

    }

    public MapReplicationUpdate(String mapName, MapMergePolicy mergePolicy, EntryView entryView) {
        this.mergePolicy = mergePolicy;
        this.mapName = mapName;
        this.entryView = entryView;
    }

    public String getMapName() {
        return mapName;
    }

    public void setMapName(String mapName) {
        this.mapName = mapName;
    }

    public MapMergePolicy getMergePolicy() {
        return mergePolicy;
    }

    public void setMergePolicy(MapMergePolicy mergePolicy) {
        this.mergePolicy = mergePolicy;
    }

    public EntryView getEntryView() {
        return entryView;
    }

    public void setEntryView(EntryView entryView) {
        this.entryView = entryView;
    }

    @Override
    public void writeData(ObjectDataOutput out) throws IOException {
        out.writeUTF(mapName);
        out.writeObject(mergePolicy);
        out.writeObject(entryView);
    }

    @Override
    public void readData(ObjectDataInput in) throws IOException {
        mapName = in.readUTF();
        mergePolicy = in.readObject();
        entryView = in.readObject();
    }
}
/*
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```

```
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*/
```

```
package com.hazelcast.map.wan;
```

```
import com.hazelcast.nio.ObjectDataInput;
import com.hazelcast.nio.ObjectDataOutput;
import com.hazelcast.nio.serialization.Data;
import com.hazelcast.nio.serialization.DataSerializable;
import com.hazelcast.wan.ReplicationEventObject;
```

```
import java.io.IOException;
```

```
public class MapReplicationRemove implements ReplicationEventObject,DataSerializable {
```

```
    String mapName;
    Data key;
    long removeTime;
```

```
    public MapReplicationRemove(String mapName, Data key, long removeTime) {
        this.mapName = mapName;
        this.key = key;
        this.removeTime = removeTime;
    }
```

```
    public MapReplicationRemove() {
    }
```

```
    public String getMapName() {
        return mapName;
    }
```

```
    public void setMapName(String mapName) {
        this.mapName = mapName;
    }
```

```
    public Data getKey() {
```



```

    return key;
}

public void setKey(Data key) {
    this.key = key;
}

public long getRemoveTime() {
    return removeTime;
}

public void setRemoveTime(long removeTime) {
    this.removeTime = removeTime;
}

@Override
public void writeData(ObjectDataOutput out) throws IOException {
    out.writeUTF(mapName);
    out.writeLong(removeTime);
    key.writeData(out);
}

@Override
public void readData(ObjectDataInput in) throws IOException {
    mapName = in.readUTF();
    removeTime = in.readLong();
    key = new Data();
    key.readData(in);
}
}
}
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 */

package com.hazelcast.map;

```

```

import com.hazelcast.core.EntryView;
import com.hazelcast.map.record.Record;
import com.hazelcast.map.record.RecordStatistics;
import com.hazelcast.nio.ObjectDataInput;
import com.hazelcast.nio.ObjectDataOutput;
import com.hazelcast.nio.serialization.IdentifiedDataSerializable;

import java.io.IOException;

public class SimpleEntryView<K,V> implements EntryView<K,V>, IdentifiedDataSerializable {

    private K key;
    private V value;
    private long cost;
    private long creationTime;
    private long expirationTime;
    private long hits;
    private long lastAccessTime;
    private long lastStoredTime;
    private long lastUpdateTime;
    private long version;

    public SimpleEntryView(K key, V value, Record record) {
        this.key = key;
        this.value = value;
        final RecordStatistics statistics = record.getStatistics();
        cost = statistics == null ? -1 : statistics.getCost();
        creationTime = statistics == null ? -1 : statistics.getCreationTime();
        expirationTime = statistics == null ? -1 : statistics.getExpirationTime();
        hits = statistics == null ? -1 : statistics.getHits();
        lastAccessTime = statistics == null ? -1 : statistics.getLastAccessTime();
        lastStoredTime = statistics == null ? -1 : statistics.getLastStoredTime();
        lastUpdateTime = statistics == null ? -1 : statistics.getLastUpdateTime();
        version = record.getVersion();
    }

    public SimpleEntryView() {
    }

    public K getKey() {
        return key;
    }

    public void setKey(K key) {
        this.key = key;
    }

    public V getValue() {

```

```

    return value;
}

public void setValue(V value) {
    this.value = value;
}

public long getCost() {
    return cost;
}

public void setCost(long cost) {
    this.cost = cost;
}

public long getCreationTime() {
    return creationTime;
}

public void setCreationTime(long creationTime) {
    this.creationTime = creationTime;
}

public long getExpirationTime() {
    return expirationTime;
}

public void setExpirationTime(long expirationTime) {
    this.expirationTime = expirationTime;
}

public long getHits() {
    return hits;
}

public void setHits(long hits) {
    this.hits = hits;
}

public long getLastAccessTime() {
    return lastAccessTime;
}

public void setLastAccessTime(long lastAccessTime) {
    this.lastAccessTime = lastAccessTime;
}

public long getLastStoredTime() {

```

```

    return lastStoredTime;
}

public void setLastStoredTime(long lastStoredTime) {
    this.lastStoredTime = lastStoredTime;
}

public long getLastUpdateTime() {
    return lastUpdateTime;
}

public void setLastUpdateTime(long lastUpdateTime) {
    this.lastUpdateTime = lastUpdateTime;
}

public long getVersion() {
    return version;
}

public void setVersion(long version) {
    this.version = version;
}

@Override
public void writeData(ObjectDataOutput out) throws IOException {
    out.writeObject(key);
    out.writeObject(value);
    out.writeLong(cost);
    out.writeLong(creationTime);
    out.writeLong(expirationTime);
    out.writeLong(hits);
    out.writeLong(lastAccessTime);
    out.writeLong(lastStoredTime);
    out.writeLong(lastUpdateTime);
    out.writeLong(version);
}

@Override
public void readData(ObjectDataInput in) throws IOException {
    key = in.readObject();
    value = in.readObject();
    cost = in.readLong();
    creationTime = in.readLong();
    expirationTime = in.readLong();
    hits = in.readLong();
    lastAccessTime = in.readLong();
    lastStoredTime = in.readLong();
    lastUpdateTime = in.readLong();
}

```

```

        version = in.readLong();
    }

    public int getFactoryId() {
        return MapDataSerializerHook.F_ID;
    }

    public int getId() {
        return MapDataSerializerHook.ENTRY_VIEW;
    }
}
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 */

package com.hazelcast.map;

import com.hazelcast.config.MaxSizeConfig;

public interface MapMaxSizePolicy {

    boolean overCapacity();

    MaxSizeConfig getMaxSizeConfig();

}
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```

```
package com.hazelcast.map;
```

```
import com.hazelcast.map.operation.MapOperationType;
```

```
import com.hazelcast.nio.serialization.Data;
```

```
import java.util.Map;
```

```
public class MapInterceptorContextImpl implements MapInterceptorContext {
```

```
    private String mapName;
```

```
    private MapOperationType operationType;
```

```
    private Data key;
```

```
    private Object newValue;
```

```
    private Map.Entry existingEntry;
```

```
    public MapInterceptorContextImpl(String mapName, MapOperationType operationType, Data key, Object  
newValue, Map.Entry existingEntry) {
```

```
        this.mapName = mapName;
```

```
        this.operationType = operationType;
```

```
        this.key = key;
```

```
        this.newValue = newValue;
```

```
        this.existingEntry = existingEntry;
```

```
    }
```

```
    @Override
```

```
    public String getMapName() {
```

```
        return mapName;
```

```
    }
```

```
    public void setNewValue(Object newValue) {
```

```
        this.newValue = newValue;
```

```
    }
```

```
    @Override
```

```
    public MapOperationType getOperationType() {
```

```
        return operationType;
```

```
    }
```

```
    @Override
```

```
    public Data getKey() {
```

```
        return key;
```

```
    }
```

```

@Override
public Object getNewValue() {
    return new Value;
}

@Override
public Map.Entry getExistingEntry() {
    return existingEntry;
}
}
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 */

package com.hazelcast.map.proxy;

import com.hazelcast.core.EntryListener;
import com.hazelcast.core.EntryView;
import com.hazelcast.core.IMap;
import com.hazelcast.map.EntryProcessor;
import com.hazelcast.map.MapInterceptor;
import com.hazelcast.map.MapService;
import com.hazelcast.map.SimpleEntryView;
import com.hazelcast.nio.serialization.Data;
import com.hazelcast.query.Predicate;
import com.hazelcast.spi.InitializingObject;
import com.hazelcast.spi.Invocation;
import com.hazelcast.spi.NodeEngine;
import com.hazelcast.spi.Operation;
import com.hazelcast.util.IterationType;
import com.hazelcast.util.executor.DelegatingFuture;

import java.util.*;
import java.util.concurrent.Future;
import java.util.concurrent.TimeUnit;

```

```

import static com.hazelcast.map.MapService.SERVICE_NAME;

/**
 * @author enesakar 1/17/13
 */
public class MapProxyImpl<K, V> extends MapProxySupport implements IMap<K, V>, InitializingObject {

    public MapProxyImpl(final String name, final MapService mapService, final NodeEngine nodeEngine) {
        super(name, mapService, nodeEngine);
    }

    public V get(Object k) {
        if (k == null) {
            throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
        }
        Data key = getService().toData(k);
        return (V) getService().toObject(getInternal(key));
    }

    public V put(final K k, final V v) {
        return put(k, v, -1, null);
    }

    public V put(final K k, final V v, final long ttl, final TimeUnit timeunit) {
        if (k == null) {
            throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
        }
        if (v == null) {
            throw new NullPointerException(NULL_VALUE_IS_NOT_ALLOWED);
        }
        final Data key = getService().toData(k);
        final Data value = getService().toData(v);
        final Data result = putInternal(key, value, ttl, timeunit);
        return (V) getService().toObject(result);
    }

    public boolean tryPut(final K k, final V v, final long timeout, final TimeUnit timeunit) {
        if (k == null) {
            throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
        }
        if (v == null) {
            throw new NullPointerException(NULL_VALUE_IS_NOT_ALLOWED);
        }
        final Data key = getService().toData(k);
        final Data value = getService().toData(v);
        return tryPutInternal(key, value, timeout, timeunit);
    }
}

```



```

public V putIfAbsent(final K k, final V v) {
    return putIfAbsent(k, v, -1, null);
}

public V putIfAbsent(final K k, final V v, final long ttl, final TimeUnit timeunit) {
    if (k == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    if (v == null) {
        throw new NullPointerException(NULL_VALUE_IS_NOT_ALLOWED);
    }
    final Data key = getService().toData(k);
    final Data value = getService().toData(v);
    final Data result = putIfAbsentInternal(key, value, ttl, timeunit);
    return (V) getService().toObject(result);
}

public void putTransient(final K k, final V v, final long ttl, final TimeUnit timeunit) {
    if (k == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    if (v == null) {
        throw new NullPointerException(NULL_VALUE_IS_NOT_ALLOWED);
    }
    final Data key = getService().toData(k);
    final Data value = getService().toData(v);
    putTransientInternal(key, value, ttl, timeunit);
}

public boolean replace(final K k, final V o, final V v) {
    if (k == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    if (v == null) {
        throw new NullPointerException(NULL_VALUE_IS_NOT_ALLOWED);
    }
    final Data key = getService().toData(k);
    final Data oldValue = getService().toData(o);
    final Data value = getService().toData(v);
    return replaceInternal(key, oldValue, value);
}

public V replace(final K k, final V v) {
    if (k == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    if (v == null) {

```

```

        throw new NullPointerException(NULL_VALUE_IS_NOT_ALLOWED);
    }
    final Data key = getService().toData(k);
    final Data value = getService().toData(v);
    return (V) getService().toObject(replaceInternal(key, value));
}

public void set(K key, V value) {
    set(key, value, -1, TimeUnit.MILLISECONDS);
}

public void set(final K k, final V v, final long ttl, final TimeUnit timeunit) {
    if (k == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    if (v == null) {
        throw new NullPointerException(NULL_VALUE_IS_NOT_ALLOWED);
    }
    final Data key = getService().toData(k);
    final Data value = getService().toData(v);
    setInternal(key, value, ttl, timeunit);
}

public V remove(Object k) {
    if (k == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    final Data key = getService().toData(k);
    final Data result = removeInternal(key);
    return (V) getService().toObject(result);
}

public boolean remove(final Object k, final Object v) {
    if (k == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    if (v == null) {
        throw new NullPointerException(NULL_VALUE_IS_NOT_ALLOWED);
    }
    final Data key = getService().toData(k);
    final Data value = getService().toData(v);
    return removeInternal(key, value);
}

public void delete(Object k) {
    if (k == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
}

```

```

        final Data key = getService().toData(k);
        deleteInternal(key);
    }

    public boolean containsKey(Object k) {
        if (k == null) {
            throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
        }
        Data key = getService().toData(k);
        return containsKeyInternal(key);
    }

    public boolean containsValue(final Object v) {
        if (v == null) {
            throw new NullPointerException(NULL_VALUE_IS_NOT_ALLOWED);
        }
        Data value = getService().toData(v);
        return containsValueInternal(value);
    }

    public void lock(final K key) {
        if (key == null) {
            throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
        }
        NodeEngine nodeEngine = getNodeEngine();
        Data k = getService().toData(key);
        lockSupport.lock(nodeEngine, k);
    }

    public void lock(final Object key, final long leaseTime, final TimeUnit timeUnit) {
        if (key == null) {
            throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
        }
        lockSupport.lock(getNodeEngine(), getService().toData(key), timeUnit.toMillis(leaseTime));
    }

    public void unlock(final K key) {
        if (key == null) {
            throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
        }
        NodeEngine nodeEngine = getNodeEngine();
        Data k = getService().toData(key);
        lockSupport.unlock(nodeEngine, k);
    }

    public boolean tryRemove(final K key, final long timeout, final TimeUnit timeunit) {
        if (key == null) {
            throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
        }
    }

```

```

    }
    Data k = getService().toData(key);
    return tryRemoveInternal(k, timeout, timeunit);
}

public Future<V> getAsync(final K k) {
    if (k == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    Data key = getService().toData(k);
    NodeEngine nodeEngine = getNodeEngine();
    return new DelegatingFuture<V>(getAsyncInternal(key), nodeEngine.getSerializationService());
}

public boolean isLocked(final K k) {
    if (k == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    Data key = getService().toData(k);
    NodeEngine nodeEngine = getNodeEngine();
    return lockSupport.isLocked(nodeEngine, key);
}

public Future putAsync(final K key, final V value) {
    if (value == null) {
        throw new NullPointerException(NULL_VALUE_IS_NOT_ALLOWED);
    }
    return putAsync(key, value, -1, null);
}

public Future putAsync(final K key, final V value, final long ttl, final TimeUnit timeunit) {
    if (key == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    if (value == null) {
        throw new NullPointerException(NULL_VALUE_IS_NOT_ALLOWED);
    }
    Data k = getService().toData(key);
    Data v = getService().toData(value);
    return new DelegatingFuture<V>(putAsyncInternal(k, v, ttl, timeunit),
getNodeEngine().getSerializationService());
}

public Future removeAsync(final K key) {
    if (key == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    Data k = getService().toData(key);

```

```

    return new DelegatingFuture<V>(removeAsyncInternal(k), getNodeEngine().getSerializationService());
}

public Map<K, V> getAll(final Set<K> keys) {
    Set<Data> ks = new HashSet(keys.size());
    for (K key : keys) {
        if (key == null) {
            throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
        }
        Data k = getService().toData(key);
        ks.add(k);
    }
    return (Map<K, V>) getAllObjectInternal(ks);
}

public void putAll(final Map<? extends K, ? extends V> m) {
    putAllInternal(m);
}

public boolean tryLock(final K key) {
    if (key == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    final NodeEngine nodeEngine = getNodeEngine();
    return lockSupport.tryLock(nodeEngine, getService().toData(key));
}

public boolean tryLock(final K key, final long time, final TimeUnit timeunit) throws InterruptedException {
    if (key == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    final NodeEngine nodeEngine = getNodeEngine();
    return lockSupport.tryLock(nodeEngine, getService().toData(key), time, timeunit);
}

public void forceUnlock(final K key) {
    if (key == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    final NodeEngine nodeEngine = getNodeEngine();
    Data k = getService().toData(key);
    lockSupport.forceUnlock(nodeEngine, k);
}

public String addInterceptor(MapInterceptor interceptor) {
    if (interceptor == null) {
        throw new NullPointerException("Interceptor should not be null!");
    }
}

```

```

    return addMapInterceptorInternal(interceptor);
}

public void removeInterceptor(String id) {
    if (id == null) {
        throw new NullPointerException("Interceptor id should not be null!");
    }
    removeMapInterceptorInternal(id);
}

public String addEntryListener(final EntryListener listener, final boolean includeValue) {
    if (listener == null) {
        throw new NullPointerException("Listener should not be null!");
    }
    return addEntryListenerInternal(listener, null, includeValue);
}

public String addEntryListener(final EntryListener<K, V> listener, final K key, final boolean includeValue) {
    if (listener == null) {
        throw new NullPointerException("Listener should not be null!");
    }
    return addEntryListenerInternal(listener, getService().toData(key), includeValue);
}

public String addEntryListener(EntryListener<K, V> listener, Predicate<K, V> predicate, K key, boolean
includeValue) {
    if (listener == null) {
        throw new NullPointerException("Listener should not be null!");
    }
    if (predicate == null) {
        throw new NullPointerException("Predicate should not be null!");
    }
    return addEntryListenerInternal(listener, predicate, getService().toData(key), includeValue);
}

public boolean removeEntryListener(String id) {
    if (id == null) {
        throw new NullPointerException("Listener id should not be null!");
    }
    return removeEntryListenerInternal(id);
}

public EntryView<K, V> getEntryView(K key) {
    if (key == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    SimpleEntryView<K, V> entryViewInternal = (SimpleEntryView)
getEntryViewInternal(getService().toData(key));
}

```

```

    if (entryViewInternal == null) {
        return null;
    }
    Data value = (Data) entryViewInternal.getValue();
    entryViewInternal.setKey(key);
    entryViewInternal.setValue((V) getService().toObject(value));
    return entryViewInternal;
}

public boolean evict(final Object key) {
    if (key == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    return evictInternal(getService().toData(key));
}

public void clear() {
    clearInternal();
}

public Set<K> keySet() {
    Set<Data> dataSet = keySetInternal();
    HashSet<K> keySet = new HashSet<K>();
    for (Data data : dataSet) {
        keySet.add((K) getService().toObject(data));
    }
    return keySet;
}

public Collection<V> values() {
    Collection<Data> dataSet = valuesInternal();
    Collection<V> valueSet = new ArrayList<V>();
    for (Data data : dataSet) {
        valueSet.add((V) getService().toObject(data));
    }
    return valueSet;
}

public Set entrySet() {
    Set<Entry<Data, Data>> entries = entrySetInternal();
    Set<Entry<K, V>> resultSet = new HashSet<Entry<K, V>>();
    for (Entry<Data, Data> entry : entries) {
        resultSet.add(new AbstractMap.SimpleImmutableEntry((K) getService().toObject(entry.getKey()), (V)
getService().toObject(entry.getValue())));
    }
    return resultSet;
}

```

```

public Set<K> keySet(final Predicate predicate) {
    if (predicate == null) {
        throw new NullPointerException("Predicate should not be null!");
    }
    return query(predicate, IterationType.KEY, false);
}

public Set entrySet(final Predicate predicate) {
    if (predicate == null) {
        throw new NullPointerException("Predicate should not be null!");
    }
    return query(predicate, IterationType.ENTRY, false);
}

public Collection<V> values(final Predicate predicate) {
    if (predicate == null) {
        throw new NullPointerException("Predicate should not be null!");
    }
    return query(predicate, IterationType.VALUE, false);
}

public Set<K> localKeySet() {
    final Set<Data> dataSet = localKeySetInternal();
    final Set<K> keySet = new HashSet<K>(dataSet.size());
    for (Data data : dataSet) {
        keySet.add((K) getService().toObject(data));
    }
    return keySet;
}

public Set<K> localKeySet(final Predicate predicate) {
    if (predicate == null) {
        throw new NullPointerException("Predicate should not be null!");
    }
    return queryLocal(predicate, IterationType.KEY, false);
}

public Object executeOnKey(K key, EntryProcessor entryProcessor) {
    if (key == null) {
        throw new NullPointerException(NULL_KEY_IS_NOT_ALLOWED);
    }
    return getService().toObject(executeOnKeyInternal(getService().toData(key), entryProcessor));
}

protected Object invoke(Operation operation, int partitionId) throws Throwable {
    NodeEngine nodeEngine = getNodeEngine();
    Invocation invocation = nodeEngine.getOperationService().createInvocationBuilder(SERVICE_NAME,
operation, partitionId).build();
}

```



```

Future f = invocation.invoke();
Object response = f.get();
Object returnObj = getService().toObject(response);
if (returnObj instanceof Throwable) {
    throw (Throwable) returnObj;
}
return returnObj;
}

```

```

@Override
public String toString() {
    final StringBuilder sb = new StringBuilder();
    sb.append("IMap");
    sb.append("{name=").append(name).append("\");
    sb.append('}');
    return sb.toString();
}
}

```

1.264 hazelcast-all 3.5.4

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1.265 hector-core 1.1.0.wso2v1

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1.266 Hibernate 3.2.6.ga

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library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.273 Hibernate Validator Engine 5.0.1.Final

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1.275 hibernate-validator 5.2.4.Final

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1.296 httpd 2.4.6 :45.el7.centos.4

1.296.1 Available under license :

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href="/sitemap.html">Sitemap</a></p>
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</div>
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href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-
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<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;&nbsp;</a></p>
</div>
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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

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href="http://httpd.apache.org/lists.html">mailing lists</a>.</div>
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<p class="apache">Copyright 2013 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
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```

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For the server\util_md5.c component:

```

/*****
* NCSA HTTPd Server
* Software Development Group
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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```
*/
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```
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For the test\zb.c component:

```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

```
*/
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[File, System, Image] FileName - File Name: ASF.wmv

[File, System, Image] Directory - Directory: t/images

[File, System, Image] FileSize - File Size: 12 kB

[File, System, Time] FileModifyDate - File Modification Date/Time: 2005:12:27 07:29:29-05:00

[File, System, Time] FileAccessDate - File Access Date/Time: 2015:05:13 13:33:45-04:00

[File, System, Time] FileInodeChangeDate - File Inode Change Date/Time: 2015:03:07 15:31:02-05:00

[File, System, Image] FilePermissions - File Permissions: rw-r--r--

[File, File, Image] FileType - File Type: WMV
[File, File, Image] FileTypeExtension - File Type Extension: wmv
[File, File, Image] MIMEType - MIME Type: video/x-ms-wmv
[ASF, ASF, Video] ToolName - Tool Name: Photo Story 3 for Windows
[ASF, ASF, Video] Publisher - Publisher: Photo Story 3 for Windows
[ASF, ASF, Video] ToolVersion - Tool Version: 3.0.1115.0
[ASF, ASF, Video] Genre - Genre: Photo Story
[ASF, ASF, Image] 0 - Picture Type: Front Cover
[ASF, ASF, Image] 1 - Picture MIME Type: image/jpeg
[ASF, ASF, Preview] 3 - Picture: (Binary data 6587 bytes)
[ASF, ASF, Video] IsVBR - Is VBR: True
[ASF, ASF, Video] ASFLeakyBucketPairs - ASF Leaky Bucket Pairs: (Binary data 114 bytes)
[ASF, ASF, Video] 0 - File ID: 5F69B0C4-04F7-4B21-9842-46CCA542D8D3
[ASF, ASF, Video] 16 - File Length: 414891
[ASF, ASF, Time] 24 - Creation Date: 2004:10:28 17:23:34Z
[ASF, ASF, Video] 32 - Data Packets: 287
[ASF, ASF, Video] 40 - Play Duration: 0:01:39
[ASF, ASF, Video] 48 - Send Duration: 0:01:37
[ASF, ASF, Video] 56 - Preroll: 5000
[ASF, ASF, Video] 64 - Flags: 2
[ASF, ASF, Video] 68 - Min Packet Size: 1400
[ASF, ASF, Video] 72 - Max Packet Size: 1400
[ASF, ASF, Video] 76 - Max Bitrate: 30.6 kbps
[ASF, ASF, Video] MediaClassPrimaryID - Media Class Primary ID: DB9830BD-3AB3-4FAB-8A37-1A995F7FF74B
[ASF, ASF, Video] MediaClassSecondaryID - Media Class Secondary ID: 0B710218-8C0C-475E-AF73-4C41C0C8F8CE
[ASF, ASF, Video] IsVBR - Is VBR: False
[ASF, ASF, Video] IsVBR - Is VBR: False
[ASF, ASF, Video] WMADRCPeakReference - WMADRC Peak Reference: 23311
[ASF, ASF, Video] WMADRCAverageReference - WMADRC Average Reference: 5966
[ASF, ASF, Other] AudioCodecName - Audio Codec Name: Windows Media Audio 9.1
[ASF, ASF, Other] AudioCodecDescription - Audio Codec Description: 20 kbps, 22 kHz, stereo 1-pass CBR
[ASF, ASF, Other] VideoCodecName - Video Codec Name: Windows Media Video 9 Image v2
[ASF, ASF, Other] VideoCodecDescription - Video Codec Description:
[ASF, ASF, Video] 0 - Stream Type: Audio
[ASF, ASF, Video] 16 - Error Correction Type: Audio Spread
[ASF, ASF, Video] 32 - Time Offset: 0 s
[ASF, ASF, Video] 48 - Stream Number: 1
[ASF, ASF, Video] 54 - Audio Codec ID: Windows Media Audio V2 V7 V8 V9 / DivX audio (WMA) / Alex AC3 Audio
[ASF, ASF, Video] 56 - Audio Channels: 2
[ASF, ASF, Video] 58 - Audio Sample Rate: 22050
[ASF, ASF, Video] 0 - Stream Type: Video
[ASF, ASF, Video] 16 - Error Correction Type: No Error Correction
[ASF, ASF, Video] 32 - Time Offset: 0 s
[ASF, ASF, Video] 48 - Stream Number: 2
[ASF, ASF, Video] 54 - Image Width: 160

[ASF, ASF, Video] 58 - Image Height: 120

[Composite, Composite, Image] ImageSize - Image Size: 160x120

[Composite, Composite, Image] Megapixels - Megapixels: 0.019

1.303 imgscalr - A Java Image Scaling Library

4.2

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1.304 infinispn-core 5.1.2.wso2v1

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE

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(1)

ExceptionConverter:

The original version of this class was published in an article by Heinz Kabutz. Read http://www.javaspecialists.co.za/archive/newsletter.do?issue=033&print=yes&locale=en_US "This material from The Java(tm) Specialists' Newsletter by Maximum Solutions (South Africa). Please contact Maximum Solutions for more information.

(2)

SimpleXMLParser:

The original version of this class was published in a JavaWorld article by Steven Brandt: <http://www.javaworld.com/javaworld/jvatips/jw-jvatip128.html> Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.' We ask that you reference the author as the creator and JavaWorld as the original publisher of the code." Steven Brandt also agreed with the use of this class.

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order.

The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI.

As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This frameork supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file `com/lowagie/text/pdf/codec/TIFFConstants` and some other TIFF related code is derived from LIBTIFF:

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1.309 Jackson 1.9.12

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core component, version 2.x
(version numbers in brackets indicate release in which the problem was fixed)

(note: for older credits, check out release notes for 1.x versions)

Tatu Saloranta, tatu.saloranta@iki.fi: author

Pascal G"linas:

* Reported [JACKSON-827]: 2.0.0 was accidentally requiring JDK 1.6
(should still be 1.5)
[2.0.1]

Ben Gertzfield (bgertzfield@github):

* Contributed [Issue#49]: Improvements to VersionUtil to more efficiently
read dynamically generated/embedded version information, to improve
Android startup time
[2.2.0]

Klaus Brunner (KlausBrunner@github)

* Reported [Issue#48]: Problem with URLs, spaces

1.317 jackson-core 2.6.5

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1.318 Jackson-core 2.2.2

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1.319 jackson-core 2.7.4

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1.320 jackson-databind 2.7.4

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(version numbers in brackets indicate release in which the problem was fixed)

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Tatu Saloranta, tatu.saloranta@iki.fi: author

Pascal GŽlinas:

* Contributed fixes to 'MappingIterator' handling (Pull#58 and Pull#59)

(2.1.0)

* Reported #220: ContainerNode missing 'createNumber(BigInteger)'

(2.2.2)

Joern Huxhorn:

- * Suggested [JACKSON-636]: Add 'SerializationFeature.ORDER_MAP_ENTRIES_BY_KEYS' to allow forced sorting of Maps during serialization
(2.0.0)

James Roper:

- * Requested [JACKSON-732]: Allow 'AnnotationIntrospector.findContentDeserializer()' (and similar) to return instance, not just Class<?> for instance
(2.0.0)
- * Suggested [JACKSON-800]: Adding a method for letting modules register DeserializationProblemHandlers
(2.0.0)

Casey Lucas:

- * Reported [JACKSON-798]: Problem with external type id, creators
(2.0.0)

Tammo van Lessen:

- * Reported [JACKSON-811]: Problems with @JsonIdentityInfo, abstract types
(2.0.0)
- * Reported [JACKSON-814]: Parsing RFC822/RFC1123 dates failes on non-US locales
(2.0.0)

Raymond Myers:

- * Suggested [JACKSON-810]: Deserialization Feature: Allow unknown Enum values via 'DeserializationFeature.READ_UNKNOWN_ENUM_VALUES_AS_NULL'
(2.0.0)

Ryan Gardner:

- * Contributed [pull-5] -- Add support for maps with java.util.Locale keys to the set of StdKeyDeserializers
(2.0.1)

Razvan Dragut:

- * Suggested [JACKSON-850]: Allow use of zero-arg factory methods as "default creator"
(2.1.0)

Duncan Atkinson:

- * Reported [JACKSON-851]: State corruption with ObjectWriter, DefaultPrettyPrinter
(2.1.0)

Mark Wolfe:

- * Suggested [Issue#45]: Add '@JsonNaming()' for per-class naming strategy overrides
(2.1.0)

Dmitry Katsubo:

- * Contributed patch for [Issue#65]: Add getters to 'ObjectMapper', 'DeserializationContext',

DeserializationFactory.

(2.1.0)

Francis Galiegue:

* Reported [Issue#93] (and suggested fix): bug in `ObjectMapper.setAll(...)` implementation

(2.1.1)

kelaneren@github:

* Reported [Issue#157], contributed unit test: NPE when registering same module twice.

(2.1.4)

Eric Tschetter (cheddar@github):

* Reported issues #166, #167, #170 (regressions from 1.9.x to 2.x)

(2.1.4)

Thierry D (thierryd@github)

* Reported #214: Problem with LICENSE, NOTICE, Android packaging

(2.2.2)

Luke G-H (lukegh@github)

* Reported #223: Duplicated nulls with @JsonFormat(shape=Shape.ARRAY)

(2.2.2)

Karl Moore (karldmoore@github)

* Reported #217: JsonProcessingExceptions not all wrapped as expected

(2.2.2)

1.322 jackson-databind 2.2.2

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1.324 jackson-jaxrs-base 2.6.5

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2.2.2

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1.330 janino 2.5.15.wso2v1

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1.331 jasper 1.900.1 :30.el7_3

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1.332 jasper-jdt 6.0.18.wso2v1

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*/
```

```
package org.apache.jasper.el;
```

```
import java.util.Iterator;
```

```
import javax.el.ArrayELResolver;  
import javax.el.BeanELResolver;  
import javax.el.CompositeELResolver;  
import javax.el.ELContext;  
import javax.el.ELException;  
import javax.el.ELResolver;  
import javax.el.ListELResolver;  
import javax.el.MapELResolver;  
import javax.el.PropertyNotFoundException;  
import javax.el.PropertyNotWritableException;
```

```

import javax.el.ResourceBundleELResolver;
import javax.servlet.jsp.el.VariableResolver;

public final class ELResolverImpl extends ELResolver {

    public final static ELResolver DefaultResolver = new CompositeELResolver();

    static {
        ((CompositeELResolver) DefaultResolver).add(new MapELResolver());
        ((CompositeELResolver) DefaultResolver).add(new ResourceBundleELResolver());
        ((CompositeELResolver) DefaultResolver).add(new ListELResolver());
        ((CompositeELResolver) DefaultResolver).add(new ArrayELResolver());
        ((CompositeELResolver) DefaultResolver).add(new BeanELResolver());
    }

    private final VariableResolver variableResolver;

    public ELResolverImpl(VariableResolver variableResolver) {
        this.variableResolver = variableResolver;
    }

    public Object getValue(ELContext context, Object base, Object property)
        throws NullPointerException, PropertyNotFoundException, ELException {
        if (context == null) {
            throw new NullPointerException();
        }

        if (base == null) {
            context.setPropertyResolved(true);
            if (property != null) {
                try {
                    return this.variableResolver.resolveVariable(property
                        .toString());
                } catch (javax.servlet.jsp.el.ELException e) {
                    throw new ELException(e.getMessage(), e.getCause());
                }
            }
        }

        if (!context.isPropertyResolved()) {
            return DefaultResolver.getValue(context, base, property);
        }
        return null;
    }

    public Class<?> getType(ELContext context, Object base, Object property)
        throws NullPointerException, PropertyNotFoundException, ELException {
        if (context == null) {

```

```

throw new NullPointerException();
}

if (base == null) {
context.setPropertyResolved(true);
if (property != null) {
try {
Object obj = this.variableResolver.resolveVariable(property
.toString());
return (obj != null) ? obj.getClass() : null;
} catch (javax.servlet.jsp.el.ELEException e) {
throw new ELEException(e.getMessage(), e.getCause());
}
}
}

if (!context.isPropertyResolved()) {
return DefaultResolver.getType(context, base, property);
}
return null;
}

public void setValue(ELContext context, Object base, Object property,
Object value) throws NullPointerException,
PropertyNotFoundException, PropertyNotWritableException,
ELEException {
if (context == null) {
throw new NullPointerException();
}

if (base == null) {
context.setPropertyResolved(true);
throw new PropertyNotWritableException(
"Legacy VariableResolver wrapped, not writable");
}

if (!context.isPropertyResolved()) {
DefaultResolver.setValue(context, base, property, value);
}
}

public boolean isReadOnly(ELContext context, Object base, Object property)
throws NullPointerException, PropertyNotFoundException, ELEException {
if (context == null) {
throw new NullPointerException();
}

if (base == null) {

```

```

    context.setPropertyResolved(true);
    return true;
}

return DefaultResolver.isReadOnly(context, base, property);
}

public Iterator<java.beans.FeatureDescriptor> getFeatureDescriptors(ELContext context, Object base) {
    return DefaultResolver.getFeatureDescriptors(context, base);
}

public Class<?> getCommonPropertyType(ELContext context, Object base) {
    if (base == null) {
        return String.class;
    }
    return DefaultResolver.getCommonPropertyType(context, base);
}

}
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 */
package org.apache.jasper.el;

import java.lang.reflect.Method;
import java.util.HashMap;
import java.util.Map;

import javax.el.ELContext;
import javax.el.ELResolver;
import javax.el.FunctionMapper;
import javax.el.ValueExpression;
import javax.el.VariableMapper;

/**

```

```

* Implementation of ELContext
*
* @author Jacob Hookom
*/
public final class ELContextImpl extends ELContext {

    private final static FunctionMapper NullFunctionMapper = new FunctionMapper() {
        public Method resolveFunction(String prefix, String localName) {
            return null;
        }
    };

    private final static class VariableMapperImpl extends VariableMapper {

        private Map<String, ValueExpression> vars;

        public ValueExpression resolveVariable(String variable) {
            if (vars == null) {
                return null;
            }
            return vars.get(variable);
        }

        public ValueExpression setVariable(String variable,
            ValueExpression expression) {
            if (vars == null)
                vars = new HashMap<String, ValueExpression>();
            return vars.put(variable, expression);
        }
    }

    private final ELResolver resolver;

    private FunctionMapper functionMapper = NullFunctionMapper; // immutable

    private VariableMapper variableMapper;

    public ELContextImpl() {
        this(ELResolverImpl.DefaultResolver);
    }

    public ELContextImpl(ELResolver resolver) {
        this.resolver = resolver;
    }

    public ELResolver getELResolver() {
        return this.resolver;
    }
}

```



```

    }

    public FunctionMapper getFunctionMapper() {
        return this.functionMapper;
    }

    public VariableMapper getVariableMapper() {
        if (this.variableMapper == null) {
            this.variableMapper = new VariableMapperImpl();
        }
        return this.variableMapper;
    }

    public void setFunctionMapper(FunctionMapper functionMapper) {
        this.functionMapper = functionMapper;
    }

    public void setVariableMapper(VariableMapper variableMapper) {
        this.variableMapper = variableMapper;
    }
}
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 */
package org.apache.jasper.el;

import javax.el.ELContext;
import javax.el.ValueExpression;
import javax.servlet.jsp.el.ELEException;
import javax.servlet.jsp.el.Expression;
import javax.servlet.jsp.el.VariableResolver;

public final class ExpressionImpl extends Expression {

```

```

private final ValueExpression ve;

public ExpressionImpl(ValueExpression ve) {
    this.ve = ve;
}

public Object evaluate(VariableResolver vResolver) throws ELException {
    ELContext ctx = new ELContextImpl(new ELResolverImpl(vResolver));
    return ve.getValue(ctx);
}

}
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 */
package org.apache.jasper.el;

import javax.el.ELContext;
import javax.servlet.jsp.el.ELException;
import javax.servlet.jsp.el.VariableResolver;

public final class VariableResolverImpl implements VariableResolver {

    private final ELContext ctx;

    public VariableResolverImpl(ELContext ctx) {
        this.ctx = ctx;
    }

    public Object resolveVariable(String pName) throws ELException {
        return this.ctx.getELResolver().getValue(this.ctx, null, pName);
    }

}

```

```

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 */

```

```
package org.apache.jasper.el;
```

```

import javax.el.ELContext;
import javax.el.ExpressionFactory;
import javax.el.ValueExpression;
import javax.servlet.jsp.el.ELEException;
import javax.servlet.jsp.el.ELParseException;
import javax.servlet.jsp.el.Expression;
import javax.servlet.jsp.el.ExpressionEvaluator;
import javax.servlet.jsp.el.FunctionMapper;
import javax.servlet.jsp.el.VariableResolver;

```

```
public final class ExpressionEvaluatorImpl extends ExpressionEvaluator {
```

```
    private final ExpressionFactory factory;
```

```

    public ExpressionEvaluatorImpl(ExpressionFactory factory) {
        this.factory = factory;
    }

```

```

    public Expression parseExpression(String expression, Class expectedType,
        FunctionMapper fMapper) throws ELEException {
        try {
            ELContextImpl ctx = new ELContextImpl(ELResolverImpl.DefaultResolver);
            if (fMapper != null) {
                ctx.setFunctionMapper(new FunctionMapperImpl(fMapper));
            }
            ValueExpression ve = this.factory.createValueExpression(ctx, expression, expectedType);
            return new ExpressionImpl(ve);
        } catch (javax.el.ELEException e) {
            throw new ELParseException(e.getMessage());
        }
    }

```

```

    }
}

public Object evaluate(String expression, Class expectedType,
    VariableResolver vResolver, FunctionMapper fMapper)
    throws ELException {
    return this.parseExpression(expression, expectedType, fMapper).evaluate(vResolver);
}

}
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 */
package org.apache.jasper.el;

import java.lang.reflect.Method;

import javax.servlet.jsp.el.FunctionMapper;

public final class FunctionMapperImpl extends javax.el.FunctionMapper {

    private final FunctionMapper fnMapper;

    public FunctionMapperImpl(FunctionMapper fnMapper) {
        this.fnMapper = fnMapper;
    }

    public Method resolveFunction(String prefix, String localName) {
        return this.fnMapper.resolveFunction(prefix, localName);
    }

}
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*/

```
package org.apache.jasper.compiler;
```

```
import java.io.FileInputStream;  
import java.io.FileNotFoundException;  
import java.io.InputStream;  
import java.io.PrintWriter;  
import java.io.StringWriter;  
import java.net.JarURLConnection;  
import java.net.URL;  
import java.util.Collection;  
import java.util.Enumeration;  
import java.util.Hashtable;  
import java.util.Iterator;  
import java.util.Map;  
import java.util.Vector;  
import java.util.jar.JarFile;  
import java.util.zip.ZipEntry;  
  
import javax.servlet.jsp.tagext.FunctionInfo;  
import javax.servlet.jsp.tagext.PageData;  
import javax.servlet.jsp.tagext.TagAttributeInfo;  
import javax.servlet.jsp.tagext.TagExtraInfo;  
import javax.servlet.jsp.tagext.TagFileInfo;  
import javax.servlet.jsp.tagext.TagInfo;  
import javax.servlet.jsp.tagext.TagLibraryInfo;  
import javax.servlet.jsp.tagext.TagLibraryValidator;  
import javax.servlet.jsp.tagext.TagVariableInfo;  
import javax.servlet.jsp.tagext.ValidationMessage;  
import javax.servlet.jsp.tagext.VariableInfo;  
  
import org.apache.jasper.JasperException;  
import org.apache.jasper.JspCompilationContext;  
import org.apache.jasper.xmlparser.ParserUtils;  
import org.apache.jasper.xmlparser.TreeNode;
```

```

import org.apache.juli.logging.Log;
import org.apache.juli.logging.LogFactory;

/**
 * Implementation of the TagLibraryInfo class from the JSP spec.
 *
 * @author Anil K. Vijendran
 * @author Mandar Raje
 * @author Pierre Delisle
 * @author Kin-man Chung
 * @author Jan Luehe
 */
class TagLibraryInfoImpl extends TagLibraryInfo implements TagConstants {

    // Logger
    private Log log = LogFactory.getLog(TagLibraryInfoImpl.class);

    private JspCompilationContext ctxt;

    private PageInfo pi;

    private ErrorDispatcher err;

    private ParserController parserController;

    private final void print(String name, String value, PrintWriter w) {
        if (value != null) {
            w.print(name + " = {\n\t");
            w.print(value);
            w.print("\n}\n");
        }
    }

    public String toString() {
        StringWriter sw = new StringWriter();
        PrintWriter out = new PrintWriter(sw);
        print("tlibversion", tlibversion, out);
        print("jspversion", jspversion, out);
        print("shortname", shortname, out);
        print("urn", urn, out);
        print("info", info, out);
        print("uri", uri, out);
        print("tagLibraryValidator", "" + tagLibraryValidator, out);

        for (int i = 0; i < tags.length; i++)
            out.println(tags[i].toString());

        for (int i = 0; i < tagFiles.length; i++)

```

```

        out.println(tagFiles[i].toString());

    for (int i = 0; i < functions.length; i++)
        out.println(functions[i].toString());

    return sw.toString();
}

// XXX FIXME
// resolveRelativeUri and/or getResourceAsStream don't seem to properly
// handle relative paths when dealing when home and getDocBase are set
// the following is a workaround until these problems are resolved.
private InputStream getResourceAsStream(String uri)
    throws FileNotFoundException {
    try {
        // see if file exists on the filesystem first
        String real = ctxt.getRealPath(uri);
        if (real == null) {
            return ctxt.getResourceAsStream(uri);
        } else {
            return new FileInputStream(real);
        }
    } catch (FileNotFoundException ex) {
        // if file not found on filesystem, get the resource through
        // the context
        return ctxt.getResourceAsStream(uri);
    }
}

/**
 * Constructor.
 */
public TagLibraryInfoImpl(JspCompilationContext ctxt, ParserController pc, PageInfo pi,
    String prefix, String uriIn, String[] location, ErrorDispatcher err)
    throws JasperException {
    super(prefix, uriIn);

    this.ctxt = ctxt;
    this.parserController = pc;
    this.pi = pi;
    this.err = err;
    InputStream in = null;
    JarFile jarFile = null;

    if (location == null) {
        // The URI points to the TLD itself or to a JAR file in which the
        // TLD is stored

```

```

    location = generateTLDLocation(uri, ctxt);
}

try {
    if (!location[0].endsWith(".jar")) {
        // Location points to TLD file
        try {
            in = getResourceAsStream(location[0]);
            if (in == null) {
                throw new FileNotFoundException(location[0]);
            }
        } catch (FileNotFoundException ex) {
            err.jspError("jsp.error.file.not.found", location[0]);
        }

        parseTLD(ctxt, location[0], in, null);
        // Add TLD to dependency list
        PageInfo pageInfo = ctxt.createCompiler().getPageInfo();
        if (pageInfo != null) {
            pageInfo.addDependant(location[0]);
        }
    } else {
        // Tag library is packaged in JAR file
        try {
            URL jarFileUrl = new URL("jar:" + location[0] + "!/");
            JarURLConnection conn = (JarURLConnection) jarFileUrl
                .openConnection();
            conn.setUseCaches(false);
            conn.connect();
            jarFile = conn.getJarFile();
            ZipEntry jarEntry = jarFile.getEntry(location[1]);
            in = jarFile.getInputStream(jarEntry);
            parseTLD(ctxt, location[0], in, jarFileUrl);
        } catch (Exception ex) {
            err.jspError("jsp.error.tld.unable_to_read", location[0],
                location[1], ex.toString());
        }
    }
} finally {
    if (in != null) {
        try {
            in.close();
        } catch (Throwable t) {
        }
    }
    if (jarFile != null) {
        try {
            jarFile.close();
        }
    }
}

```



```

        } catch (Throwable t) {
        }
    }
}

}

public TagLibraryInfo[] getTagLibraryInfos() {
    Collection coll = pi.getTaglibs();
    return (TagLibraryInfo[]) coll.toArray(new TagLibraryInfo[0]);
}

/*
 * @param ctxt The JSP compilation context @param uri The TLD's uri @param
 * in The TLD's input stream @param jarFileUrl The JAR file containing the
 * TLD, or null if the tag library is not packaged in a JAR
 */
private void parseTLD(JspCompilationContext ctxt, String uri,
    InputStream in, URL jarFileUrl) throws JasperException {
    Vector tagVector = new Vector();
    Vector tagFileVector = new Vector();
    Hashtable functionTable = new Hashtable();

    // Create an iterator over the child elements of our <taglib> element
    ParserUtils pu = new ParserUtils();
    TreeNode tld = pu.parseXMLDocument(uri, in);

    // Check to see if the <taglib> root element contains a 'version'
    // attribute, which was added in JSP 2.0 to replace the <jsp-version>
    // subelement
    this.jspversion = tld.findAttribute("version");

    // Process each child element of our <taglib> element
    Iterator list = tld.findChildren();

    while (list.hasNext()) {
        TreeNode element = (TreeNode) list.next();
        String tname = element.getName();

        if ("tlibversion".equals(tname) // JSP 1.1
            || "tlib-version".equals(tname)) { // JSP 1.2
            this.tlibversion = element.getBody();
        } else if ("jspversion".equals(tname)
            || "jsp-version".equals(tname)) {
            this.jspversion = element.getBody();
        } else if ("shortname".equals(tname) || "short-name".equals(tname))
            this.shortname = element.getBody();
        else if ("uri".equals(tname))

```

```

        this.urn = element.getBody();
    else if ("info".equals(tname) || "description".equals(tname))
        this.info = element.getBody();
    else if ("validator".equals(tname))
        this.tagLibraryValidator = createValidator(element);
    else if ("tag".equals(tname))
        tagVector.addElement(createTagInfo(element, jspversion));
    else if ("tag-file".equals(tname)) {
        TagFileInfo tagFileInfo = createTagFileInfo(element, uri,
            jarFileUrl);
        tagFileVector.addElement(tagFileInfo);
    } else if ("function".equals(tname)) { // JSP2.0
        FunctionInfo funcInfo = createFunctionInfo(element);
        String funcName = funcInfo.getName();
        if (functionTable.containsKey(funcName)) {
            err.jspError("jsp.error.tld.fn.duplicate.name", funcName,
                uri);
        }
        functionTable.put(funcName, funcInfo);
    } else if ("display-name".equals(tname) || // Ignored elements
        "small-icon".equals(tname) || "large-icon".equals(tname)
        || "listener".equals(tname)) {
        ;
    } else if ("taglib-extension".equals(tname)) {
        // Recognized but ignored
    } else {
        if (log.isWarnEnabled()) {
            log.warn(Localizer.getMessage(
                "jsp.warning.unknown.element.in.taglib", tname));
        }
    }
}

if (tlibversion == null) {
    err.jspError("jsp.error.tld.mandatory.element.missing",
        "tlib-version");
}
if (jspversion == null) {
    err.jspError("jsp.error.tld.mandatory.element.missing",
        "jsp-version");
}

this.tags = new TagInfo[tagVector.size()];
tagVector.copyInto(this.tags);

this.tagFiles = new TagFileInfo[tagFileVector.size()];

```

```

tagFileVector.copyInto(this.tagFiles);

this.functions = new FunctionInfo[functionTable.size()];
int i = 0;
Enumeration enumeration = functionTable.elements();
while (enumeration.hasMoreElements()) {
    this.functions[i++] = (FunctionInfo) enumeration.nextElement();
}
}

/*
 * @param uri The uri of the TLD @param ctxt The compilation context
 *
 * @return String array whose first element denotes the path to the TLD. If
 * the path to the TLD points to a jar file, then the second element denotes
 * the name of the TLD entry in the jar file, which is hardcoded to
 * META-INF/taglib.tld.
 */
private String[] generateTLDLocation(String uri, JspCompilationContext ctxt)
    throws JasperException {

    int uriType = TldLocationsCache.uriType(uri);
    if (uriType == TldLocationsCache.ABS_URI) {
        err.jspError("jsp.error.taglibDirective.absUriCannotBeResolved",
            uri);
    } else if (uriType == TldLocationsCache.NOROOT_REL_URI) {
        uri = ctxt.resolveRelativeUri(uri);
    }

    String[] location = new String[2];
    location[0] = uri;
    if (location[0].endsWith(".jar")) {
        URL url = null;
        try {
            url = ctxt.getResource(location[0]);
        } catch (Exception ex) {
            err.jspError("jsp.error.tld.unable_to_get_jar", location[0], ex
                .toString());
        }
        if (url == null) {
            err.jspError("jsp.error.tld.missing_jar", location[0]);
        }
        location[0] = url.toString();
        location[1] = "META-INF/taglib.tld";
    }

    return location;
}

```

```

private TagInfo createTagInfo(TreeNode elem, String jspVersion)
    throws JasperException {

    String tagName = null;
    String tagClassName = null;
    String teiClassName = null;

    /*
     * Default body content for JSP 1.2 tag handlers (<body-content> has
     * become mandatory in JSP 2.0, because the default would be invalid for
     * simple tag handlers)
     */
    String bodycontent = "JSP";

    String info = null;
    String displayName = null;
    String smallIcon = null;
    String largeIcon = null;
    boolean dynamicAttributes = false;

    Vector attributeVector = new Vector();
    Vector variableVector = new Vector();
    Iterator list = elem.findChildren();
    while (list.hasNext()) {
        TreeNode element = (TreeNode) list.next();
        String tname = element.getName();

        if ("name".equals(tname)) {
            tagName = element.getBody();
        } else if ("tagclass".equals(tname) || "tag-class".equals(tname)) {
            tagClassName = element.getBody();
        } else if ("teiclass".equals(tname) || "tei-class".equals(tname)) {
            teiClassName = element.getBody();
        } else if ("bodycontent".equals(tname)
            || "body-content".equals(tname)) {
            bodycontent = element.getBody();
        } else if ("display-name".equals(tname)) {
            displayName = element.getBody();
        } else if ("small-icon".equals(tname)) {
            smallIcon = element.getBody();
        } else if ("large-icon".equals(tname)) {
            largeIcon = element.getBody();
        } else if ("icon".equals(tname)) {
            TreeNode icon = element.findChild("small-icon");
            if (icon != null) {
                smallIcon = icon.getBody();
            }
        }
    }
}

```

```

        icon = element.findChild("large-icon");
        if (icon != null) {
            largeIcon = icon.getBody();
        }
    } else if ("info".equals(tname) || "description".equals(tname)) {
        info = element.getBody();
    } else if ("variable".equals(tname)) {
        variableVector.addElement(createVariable(element));
    } else if ("attribute".equals(tname)) {
        attributeVector
            .addElement(createAttribute(element, jspVersion));
    } else if ("dynamic-attributes".equals(tname)) {
        dynamicAttributes = JspUtil.booleanValue(element.getBody());
    } else if ("example".equals(tname)) {
        // Ignored elements
    } else if ("tag-extension".equals(tname)) {
        // Ignored
    } else {
        if (log.isWarnEnabled()) {
            log.warn(Localizer.getMessage(
                "jsp.warning.unknown.element.in.tag", tname));
        }
    }
}
}
}

```

```

TagExtraInfo tei = null;
if (teiClassName != null && !teiClassName.equals("")) {
    try {
        Class teiClass = ctxt.getClassLoader().loadClass(teiClassName);
        tei = (TagExtraInfo) teiClass.newInstance();
    } catch (Exception e) {
        err.jspError("jsp.error.teiclass.instantiation", teiClassName,
            e);
    }
}

```

```

TagAttributeInfo[] tagAttributeInfo = new TagAttributeInfo[attributeVector
    .size()];
attributeVector.copyInto(tagAttributeInfo);

```

```

TagVariableInfo[] tagVariableInfos = new TagVariableInfo[variableVector
    .size()];
variableVector.copyInto(tagVariableInfos);

```

```

TagInfo taginfo = new TagInfo(tagName, tagClassName, bodycontent, info,
    this, tei, tagAttributeInfo, displayName, smallIcon, largeIcon,
    tagVariableInfos, dynamicAttributes);
return taginfo;

```

```

}

/*
 * Parses the tag file directives of the given TagFile and turns them into a
 * TagInfo.
 *
 * @param elem The <tag-file> element in the TLD @param uri The location of
 * the TLD, in case the tag file is specified relative to it @param jarFile
 * The JAR file, in case the tag file is packaged in a JAR
 *
 * @return TagInfo corresponding to tag file directives
 */
private TagFileInfo createTagFileInfo(TreeNode elem, String uri,
    URL jarFileUrl) throws JasperException {

    String name = null;
    String path = null;

    Iterator list = elem.findChildren();
    while (list.hasNext()) {
        TreeNode child = (TreeNode) list.next();
        String tname = child.getName();
        if ("name".equals(tname)) {
            name = child.getBody();
        } else if ("path".equals(tname)) {
            path = child.getBody();
        } else if ("example".equals(tname)) {
            // Ignore <example> element: Bugzilla 33538
        } else if ("tag-extension".equals(tname)) {
            // Ignore <tag-extension> element: Bugzilla 33538
        } else if ("icon".equals(tname)
            || "display-name".equals(tname)
            || "description".equals(tname)) {
            // Ignore these elements: Bugzilla 38015
        } else {
            if (log.isWarnEnabled()) {
                log.warn(Localizer.getMessage(
                    "jsp.warning.unknown.element.in.tagfile", tname));
            }
        }
    }

    if (path.startsWith("/META-INF/tags")) {
        // Tag file packaged in JAR
        ctxt.setTagFileJarUrl(path, jarFileUrl);
    } else if (!path.startsWith("/WEB-INF/tags")) {
        err.jspError("jsp.error.tagfile.illegalPath", path);
    }
}

```

```

TagInfo tagInfo = TagFileProcessor.parseTagFileDirectives(
    parserController, name, path, this);
return new TagFileInfo(name, path, tagInfo);
}

TagAttributeInfo createAttribute(TreeNode elem, String jspVersion) {
    String name = null;
    String type = null;
    String expectedType = null;
    String methodSignature = null;
    boolean required = false, rtexprvalue = false, reqTime = false, isFragment = false, deferredValue = false,
deferredMethod = false;

    Iterator list = elem.findChildren();
    while (list.hasNext()) {
        TreeNode element = (TreeNode) list.next();
        String tname = element.getName();

        if ("name".equals(tname)) {
            name = element.getBody();
        } else if ("required".equals(tname)) {
            String s = element.getBody();
            if (s != null)
                required = JspUtil.booleanValue(s);
        } else if ("rtexprvalue".equals(tname)) {
            String s = element.getBody();
            if (s != null)
                rtexprvalue = JspUtil.booleanValue(s);
        } else if ("type".equals(tname)) {
            type = element.getBody();
            if ("1.2".equals(jspVersion)
                && (type.equals("Boolean") || type.equals("Byte")
                    || type.equals("Character")
                    || type.equals("Double")
                    || type.equals("Float")
                    || type.equals("Integer")
                    || type.equals("Long") || type.equals("Object")
                    || type.equals("Short") || type
                    .equals("String"))) {
                type = "java.lang." + type;
            }
        } else if ("fragment".equals(tname)) {
            String s = element.getBody();
            if (s != null) {
                isFragment = JspUtil.booleanValue(s);
            }
        } else if ("deferred-value".equals(tname)) {

```

```

deferredValue = true;
type = "javax.el.ValueExpression";
TreeNode child = element.findChild("type");
if (child != null) {
    expectedType = child.getBody();
    if (expectedType != null) {
        expectedType = expectedType.trim();
    }
} else {
    expectedType = "java.lang.Object";
}
} else if ("deferred-method".equals(tname)) {
    deferredMethod = true;
    type = "javax.el.MethodExpression";
    TreeNode child = element.findChild("method-signature");
    if (child != null) {
        methodSignature = child.getBody();
        if (methodSignature != null) {
            methodSignature = methodSignature.trim();
        }
    } else {
        methodSignature = "java.lang.Object method()";
    }
} else if ("description".equals(tname) || // Ignored elements
false) {
    ;
} else {
    if (log.isWarnEnabled()) {
        log.warn(Localizer.getMessage(
            "jsp.warning.unknown.element.in.attribute", tname));
    }
}
}

if (isFragment) {
    /*
    * According to JSP.C-3 ("TLD Schema Element Structure - tag"),
    * 'type' and 'rtexprvalue' must not be specified if 'fragment' has
    * been specified (this will be enforced by validating parser).
    * Also, if 'fragment' is TRUE, 'type' is fixed at
    * javax.servlet.jsp.tagext.JspFragment, and 'rtexprvalue' is fixed
    * at true. See also JSP.8.5.2.
    */
    type = "javax.servlet.jsp.tagext.JspFragment";
    rtexprvalue = true;
}

if (!rtexprvalue && type == null) {

```



```

    // According to JSP spec, for static values (those determined at
    // translation time) the type is fixed at java.lang.String.
    type = "java.lang.String";
}

return new TagAttributeInfo(name, required, type, rtexprvalue,
    isFragment, null, deferredValue, deferredMethod, expectedType,
    methodSignature);
}

TagVariableInfo createVariable(TreeNode elem) {
    String nameGiven = null;
    String nameFromAttribute = null;
    String className = "java.lang.String";
    boolean declare = true;
    int scope = VariableInfo.NESTED;

    Iterator list = elem.findChildren();
    while (list.hasNext()) {
        TreeNode element = (TreeNode) list.next();
        String tname = element.getName();
        if ("name-given".equals(tname))
            nameGiven = element.getBody();
        else if ("name-from-attribute".equals(tname))
            nameFromAttribute = element.getBody();
        else if ("variable-class".equals(tname))
            className = element.getBody();
        else if ("declare".equals(tname)) {
            String s = element.getBody();
            if (s != null)
                declare = JspUtil.booleanValue(s);
        } else if ("scope".equals(tname)) {
            String s = element.getBody();
            if (s != null) {
                if ("NESTED".equals(s)) {
                    scope = VariableInfo.NESTED;
                } else if ("AT_BEGIN".equals(s)) {
                    scope = VariableInfo.AT_BEGIN;
                } else if ("AT_END".equals(s)) {
                    scope = VariableInfo.AT_END;
                }
            }
        } else if ("description".equals(tname) || // Ignored elements
        false) {
        } else {
            if (log.isWarnEnabled()) {
                log.warn(Localizer.getMessage(
                    "jsp.warning.unknown.element.in.variable", tname));
            }
        }
    }
}

```

```

    }
    }
}
return new TagVariableInfo(nameGiven, nameFromAttribute, className,
    declare, scope);
}

private TagLibraryValidator createValidator(TreeNode elem)
    throws JasperException {

    String validatorClass = null;
    Map initParams = new Hashtable();

    Iterator list = elem.findChildren();
    while (list.hasNext()) {
        TreeNode element = (TreeNode) list.next();
        String tname = element.getName();
        if ("validator-class".equals(tname))
            validatorClass = element.getBody();
        else if ("init-param".equals(tname)) {
            String[] initParam = createInitParam(element);
            initParams.put(initParam[0], initParam[1]);
        } else if ("description".equals(tname) || // Ignored elements
            false) {
        } else {
            if (log.isWarnEnabled()) {
                log.warn(Localizer.getMessage(
                    "jsp.warning.unknown.element.in.validator", tname));
            }
        }
    }
}

TagLibraryValidator tlv = null;
if (validatorClass != null && !validatorClass.equals("")) {
    try {
        Class tlvClass = ctxt.getClassLoader()
            .loadClass(validatorClass);
        tlv = (TagLibraryValidator) tlvClass.newInstance();
    } catch (Exception e) {
        err.jspError("jsp.error.tlvclass.instantiation",
            validatorClass, e);
    }
}
if (tlv != null) {
    tlv.setInitParameters(initParams);
}
return tlv;
}

```

```

String[] createInitParam(TreeNode elem) {
    String[] initParam = new String[2];

    Iterator list = elem.findChildren();
    while (list.hasNext()) {
        TreeNode element = (TreeNode) list.next();
        String tname = element.getName();
        if ("param-name".equals(tname)) {
            initParam[0] = element.getBody();
        } else if ("param-value".equals(tname)) {
            initParam[1] = element.getBody();
        } else if ("description".equals(tname)) {
            // Do nothing
        } else {
            if (log.isWarnEnabled()) {
                log.warn(Localizer.getMessage(
                    "jsp.warning.unknown.element.in.initParam", tname));
            }
        }
    }
    return initParam;
}

```

```

FunctionInfo createFunctionInfo(TreeNode elem) {

    String name = null;
    String klass = null;
    String signature = null;

    Iterator list = elem.findChildren();
    while (list.hasNext()) {
        TreeNode element = (TreeNode) list.next();
        String tname = element.getName();

        if ("name".equals(tname)) {
            name = element.getBody();
        } else if ("function-class".equals(tname)) {
            klass = element.getBody();
        } else if ("function-signature".equals(tname)) {
            signature = element.getBody();
        } else if ("display-name".equals(tname) || // Ignored elements
            "small-icon".equals(tname) || "large-icon".equals(tname)
            || "description".equals(tname) || "example".equals(tname)) {
        } else {
            if (log.isWarnEnabled()) {
                log.warn(Localizer.getMessage(
                    "jsp.warning.unknown.element.in.function", tname));
            }
        }
    }
}

```

```

    }
    }
}

return new FunctionInfo(name, klass, signature);
}

// *****
// Until javax.servlet.jsp.tagext.TagLibraryInfo is fixed

/**
 * The instance (if any) for the TagLibraryValidator class.
 *
 * @return The TagLibraryValidator instance, if any.
 */
public TagLibraryValidator getTagLibraryValidator() {
    return tagLibraryValidator;
}

/**
 * Translation-time validation of the XML document associated with the JSP
 * page. This is a convenience method on the associated TagLibraryValidator
 * class.
 *
 * @param thePage
 *         The JSP page object
 * @return A string indicating whether the page is valid or not.
 */
public ValidationMessage[] validate(PageData thePage) {
    TagLibraryValidator tlv = getTagLibraryValidator();
    if (tlv == null)
        return null;

    String uri = getURI();
    if (uri.startsWith("/")) {
        uri = URN_JSPTLD + uri;
    }

    return tlv.validate(getPrefixString(), uri, thePage);
}

protected TagLibraryValidator tagLibraryValidator;
}
/**
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements. See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0

```

```
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

```
package org.apache.jasper.compiler.tagplugin;
```

```
/**
 * This interface is to be implemented by the plugin author, to supply
 * an alternate implementation of the tag handlers. It can be used to
 * specify the Java codes to be generated when a tag is invoked.
 *
 * An implementation of this interface must be registered in a file
 * named "tagPlugins.xml" under WEB-INF.
 */
```

```
public interface TagPlugin {
```

```
    /**
     * Generate codes for a custom tag.
     * @param ctxt a TagPluginContext for accessing Jasper functions
     */
    void doTag(TagPluginContext ctxt);
}
```

```
/*
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements. See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

```

package org.apache.jasper.compiler.tagplugin;

/**
 * This interface allows the plugin author to make inquiries about the
 * properties of the current tag, and to use Jasper resources to generate
 * direct Java codes in place of tag handler invocations.
 */

public interface TagPluginContext {
    /**
     * @return true if the body of the tag is scriptless.
     */
    boolean isScriptless();

    /**
     * @param attribute Name of the attribute
     * @return true if the attribute is specified in the tag
     */
    boolean isAttributeSpecified(String attribute);

    /**
     * @return An unique temporary variable name that the plugin can use.
     */
    String getTemporaryVariableName();

    /**
     * Generate an import statement
     * @param s Name of the import class, '*' allowed.
     */
    void generateImport(String s);

    /**
     * Generate a declaration in the of the generated class. This can be
     * used to declare an innter class, a method, or a class variable.
     * @param id An unique ID identifying the declaration. It is not
     * part of the declaration, and is used to ensure that the
     * declaration will only appear once. If this method is
     * invoked with the same id more than once in the translation
     * unit, only the first declaration will be taken.
     * @param text The text of the declaration.
     */
    void generateDeclaration(String id, String text);

    /**
     * Generate Java source codes
     */
    void generateJavaSource(String s);
}

```

```

/**
 * @return true if the attribute is specified and its value is a
 *     translation-time constant.
 */
boolean isConstantAttribute(String attribute);

/**
 * @return A string that is the value of a constant attribute. Undefined
 *     if the attribute is not a (translation-time) constant.
 *     null if the attribute is not specified.
 */
String getConstantAttribute(String attribute);

/**
 * Generate code to evaluate value of a attribute in the custom tag
 * The code is a Java expression.
 * NOTE: Currently cannot handle attributes that are fragments.
 * @param attribute The specified attribute
 */
void generateAttribute(String attribute);

/**
 * Generate codes for the body of the custom tag
 */
void generateBody();

/**
 * Abandon optimization for this tag handler, and instruct
 * Jasper to generate the tag handler calls, as usual.
 * Should be invoked if errors are detected, or when the tag body
 * is deemed too complicated for optimization.
 */
void dontUseTagPlugin();

/**
 * Get the PluginContext for the parent of this custom tag. NOTE:
 * The operations available for PluginContext so obtained is limited
 * to getPluginAttribute and setPluginAttribute, and queries (e.g.
 * isScriptless()). There should be no calls to generate*().
 * @return The pluginContext for the parent node.
 *     null if the parent is not a custom tag, or if the pluginContext
 *     is not available (because useTagPlugin is false, e.g).
 */
TagPluginContext getParentContext();

/**
 * Associate the attribute with a value in the current tagplugin context.

```

```

* The plugin attributes can be used for communication among tags that
* must work together as a group. See <c:when> for an example.
*/
void setPluginAttribute(String attr, Object value);

/**
* Get the value of an attribute in the current tagplugin context.
*/
Object getPluginAttribute(String attr);
}
/*
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* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
package org.apache.jasper.compiler;

import java.io.InputStream;
import java.io.ByteArrayInputStream;
import java.io.CharArrayWriter;
import java.io.UnsupportedEncodingException;
import java.util.ListIterator;
import javax.servlet.jsp.tagext.PageData;
import org.xml.sax.Attributes;
import org.xml.sax.helpers.AttributesImpl;
import org.apache.jasper.JasperException;

/**
* An implementation of <tt>javax.servlet.jsp.tagext.PageData</tt> which
* builds the XML view of a given page.
*
* The XML view is built in two passes:
*
* During the first pass, the FirstPassVisitor collects the attributes of the
* top-level jsp:root and those of the jsp:root elements of any included
* pages, and adds them to the jsp:root element of the XML view.
* In addition, any taglib directives are converted into xmlns: attributes and

```



```

* added to the jsp:root element of the XML view.
* This pass ignores any nodes other than JspRoot and TaglibDirective.
*
* During the second pass, the SecondPassVisitor produces the XML view, using
* the combined jsp:root attributes determined in the first pass and any
* remaining pages nodes (this pass ignores any JspRoot and TaglibDirective
* nodes).
*
* @author Jan Luehe
*/

```

```

class PageDataImpl extends PageData implements TagConstants {

```

```

    private static final String JSP_VERSION = "2.0";
    private static final String CDATA_START_SECTION = "<![CDATA[\n";
    private static final String CDATA_END_SECTION = "]]>\n";

```

```

    // string buffer used to build XML view
    private StringBuffer buf;

```

```

    /**
     * Constructor.
     *
     * @param page the page nodes from which to generate the XML view
     */

```

```

    public PageDataImpl(Node.Nodes page, Compiler compiler)
        throws JasperException {

```

```

        // First pass
        FirstPassVisitor firstPass = new FirstPassVisitor(page.getRoot(),
            compiler.getPageInfo());
        page.visit(firstPass);

```

```

        // Second pass
        buf = new StringBuffer();
        SecondPassVisitor secondPass
            = new SecondPassVisitor(page.getRoot(), buf, compiler,
            firstPass.getJspIdPrefix());
        page.visit(secondPass);
    }

```

```

    /**
     * Returns the input stream of the XML view.
     *
     * @return the input stream of the XML view
     */

```

```

    public InputStream getInputStream() {
        // Turn StringBuffer into InputStream
        try {

```

```

        return new ByteArrayInputStream(buf.toString().getBytes("UTF-8"));
    } catch (UnsupportedEncodingException uee) {
// should never happen
        throw new RuntimeException(uee.toString());
    }
}

/*
 * First-pass Visitor for JspRoot nodes (representing jsp:root elements)
 * and TaglibDirective nodes, ignoring any other nodes.
 *
 * The purpose of this Visitor is to collect the attributes of the
 * top-level jsp:root and those of the jsp:root elements of any included
 * pages, and add them to the jsp:root element of the XML view.
 * In addition, this Visitor converts any taglib directives into xmlns:
 * attributes and adds them to the jsp:root element of the XML view.
 */
static class FirstPassVisitor
    extends Node.Visitor implements TagConstants {

private Node.Root root;
private AttributesImpl rootAttrs;
private PageInfo pageInfo;

// Prefix for the 'id' attribute
private String jspIdPrefix;

/*
 * Constructor
 */
public FirstPassVisitor(Node.Root root, PageInfo pageInfo) {
    this.root = root;
    this.pageInfo = pageInfo;
    this.rootAttrs = new AttributesImpl();
    this.rootAttrs.addAttribute("", "", "version", "CDATA",
        JSP_VERSION);
    this.jspIdPrefix = "jsp";
}

public void visit(Node.Root n) throws JasperException {
    visitBody(n);
    if (n == root) {
/*
 * Top-level page.
 *
 * Add
 * xmlns:jsp="http://java.sun.com/JSP/Page"
 * attribute only if not already present.

```

```

*/
if (!JSP_URI.equals(rootAttrs.getValue("xmlns:jsp"))) {
    rootAttrs.addAttribute("", "", "xmlns:jsp", "CDATA",
        JSP_URI);
}

if (pageInfo.isJspPrefixHijacked()) {
    /*
     * 'jsp' prefix has been hijacked, that is, bound to a
     * namespace other than the JSP namespace. This means that
     * when adding an 'id' attribute to each element, we can't
     * use the 'jsp' prefix. Therefore, create a new prefix
     * (one that is unique across the translation unit) for use
     * by the 'id' attribute, and bind it to the JSP namespace
     */
    jspIdPrefix += "jsp";
    while (pageInfo.containsPrefix(jspIdPrefix)) {
        jspIdPrefix += "jsp";
    }
    rootAttrs.addAttribute("", "", "xmlns:" + jspIdPrefix,
        "CDATA", JSP_URI);
}

root.setAttributes(rootAttrs);
}
}

public void visit(Node.JspRoot n) throws JasperException {
    addAttributes(n.getTaglibAttributes());
    addAttributes(n.getNonTaglibXmlnsAttributes());
    addAttributes(n.getAttributes());

    visitBody(n);
}

/*
 * Converts taglib directive into "xmlns:..." attribute of jsp:root
 * element.
 */
public void visit(Node.TaglibDirective n) throws JasperException {
    Attributes attrs = n.getAttributes();
    if (attrs != null) {
        String qName = "xmlns:" + attrs.getValue("prefix");
        /*
         * According to javadocs of org.xml.sax.helpers.AttributesImpl,
         * the addAttribute method does not check to see if the
         * specified attribute is already contained in the list: This
         * is the application's responsibility!

```

```

*/
if (rootAttrs.getIndex(qName) == -1) {
    String location = attrs.getValue("uri");
    if (location != null) {
        if (location.startsWith("/")) {
            location = URN_JSPTLD + location;
        }
    }
    rootAttrs.addAttribute("", "", qName, "CDATA",
        location);
    } else {
    location = attrs.getValue("tagdir");
    rootAttrs.addAttribute("", "", qName, "CDATA",
        URN_JSPTAGDIR + location);
    }
}
}
}

public String getJspIdPrefix() {
    return jspIdPrefix;
}

private void addAttributes(Attributes attrs) {
    if (attrs != null) {
        int len = attrs.getLength();

        for (int i=0; i<len; i++) {
            String qName = attrs.getQName(i);
            if ("version".equals(qName)) {
                continue;
            }

            // Bugzilla 35252: http://issues.apache.org/bugzilla/show_bug.cgi?id=35252
            if (rootAttrs.getIndex(qName) == -1) {
                rootAttrs.addAttribute(attrs.getURI(i),
                    attrs.getLocalName(i),
                    qName,
                    attrs.getType(i),
                    attrs.getValue(i));
            }
        }
    }
}

/*
* Second-pass Visitor responsible for producing XML view and assigning

```

```

* each element a unique jsp:id attribute.
*/
static class SecondPassVisitor extends Node.Visitor
    implements TagConstants {

private Node.Root root;
private StringBuffer buf;
private Compiler compiler;
private String jspIdPrefix;
private boolean resetDefaultNS = false;

// Current value of jsp:id attribute
private int jspId;

/*
* Constructor
*/
public SecondPassVisitor(Node.Root root, StringBuffer buf,
    Compiler compiler, String jspIdPrefix) {
    this.root = root;
    this.buf = buf;
    this.compiler = compiler;
    this.jspIdPrefix = jspIdPrefix;
}

/*
* Visits root node.
*/
public void visit(Node.Root n) throws JasperException {
    if (n == this.root) {
// top-level page
appendXmlProlog();
appendTag(n);
    } else {
boolean resetDefaultNSSave = resetDefaultNS;
if (n.isXmlSyntax()) {
    resetDefaultNS = true;
}
visitBody(n);
resetDefaultNS = resetDefaultNSSave;
    }
}

/*
* Visits jsp:root element of JSP page in XML syntax.
*
* Any nested jsp:root elements (from pages included via an
* include directive) are ignored.

```

```

*/
public void visit(Node.JspRoot n) throws JasperException {
    visitBody(n);
}

public void visit(Node.PageDirective n) throws JasperException {
    appendPageDirective(n);
}

public void visit(Node.IncludeDirective n) throws JasperException {
    // expand in place
    visitBody(n);
}

public void visit(Node.Comment n) throws JasperException {
    // Comments are ignored in XML view
}

public void visit(Node.Declaration n) throws JasperException {
    appendTag(n);
}

public void visit(Node.Expression n) throws JasperException {
    appendTag(n);
}

public void visit(Node.Scriptlet n) throws JasperException {
    appendTag(n);
}

public void visit(Node.JspElement n) throws JasperException {
    appendTag(n);
}

public void visit(Node.ELExpression n) throws JasperException {
    if (!n.getRoot().isXmlSyntax()) {
        buf.append("<").append(JSP_TEXT_ACTION);
        buf.append(" ");
        buf.append(jspIdPrefix);
        buf.append(":id=\"");
        buf.append(jspId++).append("\>");
    }
    buf.append("${");
    buf.append(JspUtil.escapeXml(n.getText()));
    buf.append("}");
    if (!n.getRoot().isXmlSyntax()) {
        buf.append(JSP_TEXT_ACTION_END);
    }
}

```

```

        buf.append("\n");
    }

    public void visit(Node.IncludeAction n) throws JasperException {
        appendTag(n);
    }

    public void visit(Node.ForwardAction n) throws JasperException {
        appendTag(n);
    }

    public void visit(Node.GetProperty n) throws JasperException {
        appendTag(n);
    }

    public void visit(Node.SetProperty n) throws JasperException {
        appendTag(n);
    }

    public void visit(Node.ParamAction n) throws JasperException {
        appendTag(n);
    }

    public void visit(Node.ParamsAction n) throws JasperException {
        appendTag(n);
    }

    public void visit(Node.FallBackAction n) throws JasperException {
        appendTag(n);
    }

    public void visit(Node.UseBean n) throws JasperException {
        appendTag(n);
    }

    public void visit(Node.PlugIn n) throws JasperException {
        appendTag(n);
    }

    public void visit(Node.NamedAttribute n) throws JasperException {
        appendTag(n);
    }

    public void visit(Node.JspBody n) throws JasperException {
        appendTag(n);
    }

    public void visit(Node.CustomTag n) throws JasperException {

```

```

    boolean resetDefaultNSSave = resetDefaultNS;
    appendTag(n, resetDefaultNS);
    resetDefaultNS = resetDefaultNSSave;
}

public void visit(Node.UninterpretedTag n) throws JasperException {
    boolean resetDefaultNSSave = resetDefaultNS;
    appendTag(n, resetDefaultNS);
    resetDefaultNS = resetDefaultNSSave;
}

public void visit(Node.JspText n) throws JasperException {
    appendTag(n);
}

public void visit(Node.DoBodyAction n) throws JasperException {
    appendTag(n);
}

    public void visit(Node.InvokeAction n) throws JasperException {
    appendTag(n);
}

public void visit(Node.TagDirective n) throws JasperException {
    appendTagDirective(n);
}

public void visit(Node.AttributeDirective n) throws JasperException {
    appendTag(n);
}

public void visit(Node.VariableDirective n) throws JasperException {
    appendTag(n);
}

public void visit(Node.TemplateText n) throws JasperException {
    /*
     * If the template text came from a JSP page written in JSP syntax,
     * create a jsp:text element for it (JSP 5.3.2).
     */
    appendText(n.getText(), !n.getRoot().isXmlSyntax());
}

/*
 * Appends the given tag, including its body, to the XML view.
 */
private void appendTag(Node n) throws JasperException {
    appendTag(n, false);
}

```



```

}

/*
 * Appends the given tag, including its body, to the XML view,
 * and optionally reset default namespace to "", if none specified.
 */
private void appendTag(Node n, boolean addDefaultNS)
throws JasperException {

    Node.Nodes body = n.getBody();
    String text = n.getText();

    buf.append("<").append(n.getQName());
    buf.append("\n");

    printAttributes(n, addDefaultNS);
    buf.append(" ").append(jspIdPrefix).append(":id").append("=\");
    buf.append(jspId++).append("\n");

    if (ROOT_ACTION.equals(n.getLocalName()) || body != null
        || text != null) {
        buf.append(">\n");
    }
    if (ROOT_ACTION.equals(n.getLocalName())) {
        if (compiler.getCompilationContext().isTagFile()) {
            appendTagDirective();
        } else {
            appendPageDirective();
        }
    }
    if (body != null) {
        body.visit(this);
    } else {
        appendText(text, false);
    }
    buf.append("</" + n.getQName() + ">\n");
    } else {
    buf.append("/>\n");
    }
}

/*
 * Appends the page directive with the given attributes to the XML
 * view.
 *
 * Since the import attribute of the page directive is the only page
 * attribute that is allowed to appear multiple times within the same
 * document, and since XML allows only single-value attributes,
 * the values of multiple import attributes must be combined into one,

```

```

* separated by comma.
*
* If the given page directive contains just 'contentType' and/or
* 'pageEncoding' attributes, we ignore it, as we've already appended
* a page directive containing just these two attributes.
*/
private void appendPageDirective(Node.PageDirective n) {
    boolean append = false;
    Attributes attrs = n.getAttributes();
    int len = (attrs == null) ? 0 : attrs.getLength();
    for (int i=0; i<len; i++) {
        String attrName = attrs.getQName(i);
        if (!"pageEncoding".equals(attrName)
            && !"contentType".equals(attrName)) {
            append = true;
            break;
        }
    }
    if (!append) {
        return;
    }

    buf.append("<").append(n.getQName());
    buf.append("\n");

    // append jsp:id
    buf.append(" ").append(jspIdPrefix).append(":id").append("=\");
    buf.append(jspId++).append("\n");

    // append remaining attributes
    for (int i=0; i<len; i++) {
        String attrName = attrs.getQName(i);
        if ("import".equals(attrName) || "contentType".equals(attrName)
            || "pageEncoding".equals(attrName)) {
            /*
             * Page directive's 'import' attribute is considered
             * further down, and its 'pageEncoding' and 'contentType'
             * attributes are ignored, since we've already appended
             * a new page directive containing just these two
             * attributes
             */
            continue;
        }
        String value = attrs.getValue(i);
        buf.append(" ").append(attrName).append("=\");
        buf.append(JspUtil.getExprInXml(value)).append("\n");
    }
    if (n.getImports().size() > 0) {

```

```

// Concatenate names of imported classes/packages
boolean first = true;
ListIterator iter = n.getImports().listIterator();
while (iter.hasNext()) {
    if (first) {
        first = false;
        buf.append(" import=");
    } else {
        buf.append(",");
    }
    buf.append(JspUtil.getExprInXml((String) iter.next()));
}
buf.append("\n");
}
buf.append("/>\n");
}

/*
 * Appends a page directive with 'pageEncoding' and 'contentType'
 * attributes.
 *
 * The value of the 'pageEncoding' attribute is hard-coded
 * to UTF-8, whereas the value of the 'contentType' attribute, which
 * is identical to what the container will pass to
 * ServletResponse.setContentType(), is derived from the pageInfo.
 */
private void appendPageDirective() {
    buf.append("<").append(JSP_PAGE_DIRECTIVE_ACTION);
    buf.append("\n");

    // append jsp:id
    buf.append(" ").append(jspIdPrefix).append(":id").append("=");
    buf.append(jspId++).append("\n");
    buf.append(" ").append("pageEncoding").append("="UTF-8\n");
    buf.append(" ").append("contentType").append("=");
    buf.append(compiler.getPageInfo().getContentType()).append("\n");
    buf.append("/>\n");
}

/*
 * Appends the tag directive with the given attributes to the XML
 * view.
 *
 * If the given tag directive contains just a 'pageEncoding'
 * attributes, we ignore it, as we've already appended
 * a tag directive containing just this attributes.
 */
private void appendTagDirective(Node.TagDirective n)

```

```

        throws JasperException {

        boolean append = false;
        Attributes attrs = n.getAttributes();
        int len = (attrs == null) ? 0 : attrs.getLength();
        for (int i=0; i<len; i++) {
        String attrName = attrs.getQName(i);
        if (!"pageEncoding".equals(attrName)) {
            append = true;
            break;
        }
        }
        if (!append) {
        return;
        }

        appendTag(n);
    }

    /*
    * Appends a tag directive containing a single 'pageEncoding'
    * attribute whose value is hard-coded to UTF-8.
    */
    private void appendTagDirective() {
        buf.append("<").append(JSP_TAG_DIRECTIVE_ACTION);
        buf.append("\n");

        // append jsp:id
        buf.append(" ").append(jspIdPrefix).append(":id").append("=\");
        buf.append(jspId++).append("\n");
        buf.append(" ").append("pageEncoding").append("=\\"UTF-8\\");
        buf.append(">\n");
    }

    private void appendText(String text, boolean createJspTextElement) {
        if (createJspTextElement) {
        buf.append("<").append(JSP_TEXT_ACTION);
        buf.append("\n");

        // append jsp:id
        buf.append(" ").append(jspIdPrefix).append(":id").append("=\");
        buf.append(jspId++).append("\n");
        buf.append(">\n");

        appendCDATA(text);
        buf.append(JSP_TEXT_ACTION_END);
        buf.append("\n");
        } else {

```

```

appendCDATA(text);
    }
}

/*
 * Appends the given text as a CDATA section to the XML view, unless
 * the text has already been marked as CDATA.
 */
private void appendCDATA(String text) {
    buf.append(CDATA_START_SECTION);
    buf.append(escapeCDATA(text));
    buf.append(CDATA_END_SECTION);
}

/*
 * Escapes any occurrences of "]]>" (by replacing them with "]]&gt;")
 * within the given text, so it can be included in a CDATA section.
 */
private String escapeCDATA(String text) {
    if( text==null ) return "";
    int len = text.length();
    CharArrayWriter result = new CharArrayWriter(len);
    for (int i=0; i<len; i++) {
        if (((i+2) < len)
            && (text.charAt(i) == ']')
            && (text.charAt(i+1) == ']')
            && (text.charAt(i+2) == '>')) {
            // match found
            result.write(']');
            result.write(']');
            result.write('&');
            result.write('g');
            result.write('t');
            result.write(';');
            i += 2;
        } else {
            result.write(text.charAt(i));
        }
    }
    return result.toString();
}

/*
 * Appends the attributes of the given Node to the XML view.
 */
private void printAttributes(Node n, boolean addDefaultNS) {
    /*

```

```

    * Append "xmlns" attributes that represent tag libraries
    */
    Attributes attrs = n.getTaglibAttributes();
    int len = (attrs == null) ? 0 : attrs.getLength();
    for (int i=0; i<len; i++) {
String name = attrs.getQName(i);
String value = attrs.getValue(i);
buf.append(" ").append(name).append("=").append(value).append("\n");
    }

    /*
    * Append "xmlns" attributes that do not represent tag libraries
    */
    attrs = n.getNonTaglibXmlnsAttributes();
    len = (attrs == null) ? 0 : attrs.getLength();
    boolean defaultNSSeen = false;
    for (int i=0; i<len; i++) {
String name = attrs.getQName(i);
String value = attrs.getValue(i);
buf.append(" ").append(name).append("=").append(value).append("\n");
defaultNSSeen |= "xmlns".equals(name);
    }
    if (addDefaultNS && !defaultNSSeen) {
buf.append(" xmlns=\"\");
    }
    resetDefaultNS = false;

    /*
    * Append all other attributes
    */
    attrs = n.getAttributes();
    len = (attrs == null) ? 0 : attrs.getLength();
    for (int i=0; i<len; i++) {
String name = attrs.getQName(i);
String value = attrs.getValue(i);
buf.append(" ").append(name).append("=");
buf.append(JspUtil.getExprInXml(value)).append("\n");
    }
}

/*
* Appends XML prolog with encoding declaration.
*/
private void appendXmlProlog() {
    buf.append("<?xml version=\"1.0\" encoding=\"UTF-8\" ?>\n");
}
}
}

```

```

/*
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements. See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```
package org.apache.jasper.compiler;
```

```

import java.io.InputStream;
import java.util.Collection;
import java.util.Hashtable;
import java.util.Iterator;
import java.util.Set;
import java.util.Vector;

```

```

import javax.servlet.jsp.tagext.FunctionInfo;
import javax.servlet.jsp.tagext.TagFileInfo;
import javax.servlet.jsp.tagext.TagInfo;
import javax.servlet.jsp.tagext.TagLibraryInfo;

```

```

import org.apache.jasper.JasperException;
import org.apache.jasper.JspCompilationContext;
import org.apache.jasper.xmlparser.ParserUtils;
import org.apache.jasper.xmlparser.TreeNode;

```

```

/**
 * Class responsible for generating an implicit tag library containing tag
 * handlers corresponding to the tag files in "/WEB-INF/tags/" or a
 * subdirectory of it.
 *
 * @author Jan Luehe
 */

```

```

class ImplicitTagLibraryInfo extends TagLibraryInfo {

    private static final String WEB_INF_TAGS = "/WEB-INF/tags";
    private static final String TAG_FILE_SUFFIX = ".tag";
    private static final String TAGX_FILE_SUFFIX = ".tagx";

```

```

private static final String TAGS_SHORTNAME = "tags";
private static final String TLIB_VERSION = "1.0";
private static final String JSP_VERSION = "2.0";
private static final String IMPLICIT_TLD = "implicit.tld";

// Maps tag names to tag file paths
private Hashtable tagFileMap;

private ParserController pc;
private PageInfo pi;
private Vector vec;

/**
 * Constructor.
 */
public ImplicitTagLibraryInfo(JspCompilationContext ctxt,
    ParserController pc,
    PageInfo pi,
    String prefix,
    String tagdir,
    ErrorDispatcher err) throws JasperException {
    super(prefix, null);
    this.pc = pc;
    this.pi = pi;
    this.tagFileMap = new Hashtable();
    this.vec = new Vector();

    // Implicit tag libraries have no functions:
    this.functions = new FunctionInfo[0];

    tlibversion = TLIB_VERSION;
    jspversion = JSP_VERSION;

    if (!tagdir.startsWith(WEB_INF_TAGS)) {
        err.jspError("jsp.error.invalid.tagdir", tagdir);
    }

    // Determine the value of the <short-name> subelement of the
    // "imaginary" <taglib> element
    if (tagdir.equals(WEB_INF_TAGS)
        || tagdir.equals(WEB_INF_TAGS + "/")) {
        shortname = TAGS_SHORTNAME;
    } else {
        shortname = tagdir.substring(WEB_INF_TAGS.length());
        shortname = shortname.replace('/', '-');
    }

    // Populate mapping of tag names to tag file paths

```



```

Set dirList = ctxt.getResourcePaths(tagdir);
if (dirList != null) {
    Iterator it = dirList.iterator();
    while (it.hasNext()) {
        String path = (String) it.next();
        if (path.endsWith(TAG_FILE_SUFFIX)
            || path.endsWith(TAGX_FILE_SUFFIX)) {
            /*
             * Use the filename of the tag file, without the .tag or
             * .tagx extension, respectively, as the <name> subelement
             * of the "imaginary" <tag-file> element
             */
            String suffix = path.endsWith(TAG_FILE_SUFFIX) ?
                TAG_FILE_SUFFIX : TAGX_FILE_SUFFIX;
            String tagName = path.substring(path.lastIndexOf("/") + 1);
            tagName = tagName.substring(0,
                tagName.lastIndexOf(suffix));
            tagFileMap.put(tagName, path);
        } else if (path.endsWith(IMPLICIT_TLD)) {
            InputStream in = null;
            try {
                in = ctxt.getResourceAsStream(path);
                if (in != null) {

                    // Add implicit TLD to dependency list
                    if (pi != null) {
                        pi.addDependant(path);
                    }

                    ParserUtils pu = new ParserUtils();
                    TreeNode tld = pu.parseXMLDocument(uri, in);

                    if (tld.findAttribute("version") != null) {
                        this.jspversion = tld.findAttribute("version");
                    }

                    // Process each child element of our <taglib> element
                    Iterator list = tld.findChildren();

                    while (list.hasNext()) {
                        TreeNode element = (TreeNode) list.next();
                        String tname = element.getName();

                        if ("tlibversion".equals(tname) // JSP 1.1
                            || "tlib-version".equals(tname)) { // JSP 1.2
                            this.tlibversion = element.getBody();
                        } else if ("jspversion".equals(tname)
                            || "jsp-version".equals(tname)) {

```



```

    try {
        tagInfo = TagFileProcessor.parseTagFileDirectives(pc,
            shortName,
            path,
            this);
    } catch (JasperException je) {
        throw new RuntimeException(je.toString(), je);
    }

    tagFile = new TagFileInfo(shortName, path, tagInfo);
    vec.addElement(tagFile);

    this.tagFiles = new TagFileInfo[vec.size()];
    vec.copyInto(this.tagFiles);
}

return tagFile;
}

public TagLibraryInfo[] getTagLibraryInfos() {
    Collection coll = pi.getTaglibs();
    return (TagLibraryInfo[]) coll.toArray(new TagLibraryInfo[0]);
}

}
/*
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 */

package org.apache.jasper.compiler;

import java.util.*;
import java.io.*;
import javax.servlet.ServletContext;

```

```

import org.apache.jasper.JasperException;
import org.apache.jasper.xmlparser.ParserUtils;
import org.apache.jasper.xmlparser.TreeNode;
import org.apache.jasper.compiler.tagplugin.TagPlugin;
import org.apache.jasper.compiler.tagplugin.TagPluginContext;

/**
 * Manages tag plugin optimizations.
 * @author Kin-man Chung
 */

public class TagPluginManager {

    private static final String TAG_PLUGINS_XML = "/WEB-INF/tagPlugins.xml";
    private static final String TAG_PLUGINS_ROOT_ELEM = "tag-plugins";

    private boolean initialized = false;
    private HashMap tagPlugins = null;
    private ServletContext ctxt;
    private PageInfo pageInfo;

    public TagPluginManager(ServletContext ctxt) {
        this.ctxt = ctxt;
    }

    public void apply(Node.Nodes page, ErrorDispatcher err, PageInfo pageInfo)
        throws JasperException {

        init(err);
        if (tagPlugins == null || tagPlugins.size() == 0) {
            return;
        }

        this.pageInfo = pageInfo;

        page.visit(new Node.Visitor() {
            public void visit(Node.CustomTag n)
                throws JasperException {
                invokePlugin(n);
                visitBody(n);
            }
        });

    }

    private void init(ErrorDispatcher err) throws JasperException {
        if (initialized)
            return;

```

```

InputStream is = ctxt.getResourceAsStream(TAG_PLUGINS_XML);
if (is == null)
    return;

TreeNode root = (new ParserUtils()).parseXMLDocument(TAG_PLUGINS_XML,
    is);
if (root == null) {
    return;
}

if (!TAG_PLUGINS_ROOT_ELEM.equals(root.getName())) {
    err.jspError("jsp.error.plugin.wrongRootElement", TAG_PLUGINS_XML,
        TAG_PLUGINS_ROOT_ELEM);
}

tagPlugins = new HashMap();
Iterator pluginList = root.findChildren("tag-plugin");
while (pluginList.hasNext()) {
    TreeNode pluginNode = (TreeNode) pluginList.next();
    TreeNode tagClassNode = pluginNode.findChild("tag-class");
    if (tagClassNode == null) {
        // Error
        return;
    }
    String tagClass = tagClassNode.getBody().trim();
    TreeNode pluginClassNode = pluginNode.findChild("plugin-class");
    if (pluginClassNode == null) {
        // Error
        return;
    }

    String pluginClassStr = pluginClassNode.getBody();
    TagPlugin tagPlugin = null;
    try {
        Class pluginClass = Class.forName(pluginClassStr);
        tagPlugin = (TagPlugin) pluginClass.newInstance();
    } catch (Exception e) {
        throw new JasperException(e);
    }
    if (tagPlugin == null) {
        return;
    }
    tagPlugins.put(tagClass, tagPlugin);
}
initialized = true;
}

```

```

/**
 * Invoke tag plugin for the given custom tag, if a plugin exists for
 * the custom tag's tag handler.
 *
 * The given custom tag node will be manipulated by the plugin.
 */
private void invokePlugin(Node.CustomTag n) {
TagPlugin tagPlugin = (TagPlugin)
tagPlugins.get(n.getTagHandlerClass().getName());
if (tagPlugin == null) {
    return;
}

TagPluginContext tagPluginContext = new TagPluginContextImpl(n, pageInfo);
n.setTagPluginContext(tagPluginContext);
tagPlugin.doTag(tagPluginContext);
}

static class TagPluginContextImpl implements TagPluginContext {
private Node.CustomTag node;
private Node.Nodes curNodes;
private PageInfo pageInfo;
private HashMap pluginAttributes;

TagPluginContextImpl(Node.CustomTag n, PageInfo pageInfo) {
    this.node = n;
    this.pageInfo = pageInfo;
    curNodes = new Node.Nodes();
    n.setAtETag(curNodes);
    curNodes = new Node.Nodes();
    n.setAtSTag(curNodes);
    n.setUseTagPlugin(true);
    pluginAttributes = new HashMap();
}

public TagPluginContext getParentContext() {
    Node parent = node.getParent();
    if (! (parent instanceof Node.CustomTag)) {
return null;
    }
    return ((Node.CustomTag) parent).getTagPluginContext();
}

public void setPluginAttribute(String key, Object value) {
    pluginAttributes.put(key, value);
}

public Object getPluginAttribute(String key) {

```

```

        return pluginAttributes.get(key);
    }

    public boolean isScriptless() {
        return node.getChildInfo().isScriptless();
    }

    public boolean isConstantAttribute(String attribute) {
        Node.JspAttribute attr = getNodeAttribute(attribute);
        if (attr == null)
            return false;
        return attr.isLiteral();
    }

    public String getConstantAttribute(String attribute) {
        Node.JspAttribute attr = getNodeAttribute(attribute);
        if (attr == null)
            return null;
        return attr.getValue();
    }

    public boolean isAttributeSpecified(String attribute) {
        return getNodeAttribute(attribute) != null;
    }

    public String getTemporaryVariableName() {
        return JspUtil.nextTemporaryVariableName();
    }

    public void generateImport(String imp) {
        pageInfo.addImport(imp);
    }

    public void generateDeclaration(String id, String text) {
        if (pageInfo.isPluginDeclared(id)) {
            return;
        }
        curNodes.add(new Node.Declaration(text, node.getStart(), null));
    }

    public void generateJavaSource(String sourceCode) {
        curNodes.add(new Node.Scriptlet(sourceCode, node.getStart(),
            null));
    }

    public void generateAttribute(String attributeName) {
        curNodes.add(new Node.AttributeGenerator(node.getStart(),
            attributeName,

```



```

import javax.servlet.ServletException;
import javax.servlet.ServletResponse;
import javax.servlet.jsp.JspApplicationContext;
import javax.servlet.jsp.JspEngineInfo;
import javax.servlet.jsp.JspFactory;
import javax.servlet.jsp.PageContext;

import org.apache.jasper.Constants;
import org.apache.juli.logging.Log;
import org.apache.juli.logging.LogFactory;

/**
 * Implementation of JspFactory.
 *
 * @author Anil K. Vijendran
 */
public class JspFactoryImpl extends JspFactory {

    // Logger
    private Log log = LogFactory.getLog(JspFactoryImpl.class);

    private static final String SPEC_VERSION = "2.1";
    private static final boolean USE_POOL =
        Boolean.valueOf(System.getProperty("org.apache.jasper.runtime.JspFactoryImpl.USE_POOL",
"true")).booleanValue();
    private static final int POOL_SIZE =
        Integer.valueOf(System.getProperty("org.apache.jasper.runtime.JspFactoryImpl.POOL_SIZE",
"8")).intValue();

    private ThreadLocal<PageContextPool> localPool = new ThreadLocal<PageContextPool>();

    public PageContext getPageContext(Servlet servlet, ServletRequest request,
        ServletResponse response, String errorPageURL, boolean needsSession,
        int bufferSize, boolean autoflush) {

        if( Constants.IS_SECURITY_ENABLED ) {
            PrivilegedGetPageContext dp = new PrivilegedGetPageContext(
                (JspFactoryImpl)this, servlet, request, response, errorPageURL,
                needsSession, bufferSize, autoflush);
            return (PageContext)AccessController.doPrivileged(dp);
        } else {
            return internalGetPageContext(servlet, request, response,
                errorPageURL, needsSession,
                bufferSize, autoflush);
        }
    }

    public void releasePageContext(PageContext pc) {

```

```

if( pc == null )
    return;
if( Constants.IS_SECURITY_ENABLED ) {
    PrivilegedReleasePageContext dp = new PrivilegedReleasePageContext(
        (JspFactoryImpl)this,pc);
    AccessController.doPrivileged(dp);
} else {
    internalReleasePageContext(pc);
}
}

public JspEngineInfo getEngineInfo() {
    return new JspEngineInfo() {
        public String getSpecificationVersion() {
            return SPEC_VERSION;
        }
    };
}

private PageContext internalGetPageContext(Servlet servlet, ServletRequest request,
    ServletResponse response, String errorPageURL, boolean needsSession,
    int bufferSize, boolean autoflush) {
    try {
        PageContext pc;
        if (USE_POOL) {
            PageContextPool pool = localPool.get();
            if (pool == null) {
                pool = new PageContextPool();
                localPool.set(pool);
            }
            pc = pool.get();
            if (pc == null) {
                pc = new PageContextImpl();
            }
        } else {
            pc = new PageContextImpl();
        }
        pc.initialize(servlet, request, response, errorPageURL,
            needsSession, bufferSize, autoflush);
        return pc;
    } catch (Throwable ex) {
        /* FIXME: need to do something reasonable here!! */
        log.fatal("Exception initializing page context", ex);
        return null;
    }
}

private void internalReleasePageContext(PageContext pc) {

```

```

pc.release();
if (USE_POOL && (pc instanceof PageContextImpl)) {
    localPool.get().put(pc);
}
}

private class PrivilegedGetPageContext implements PrivilegedAction {

    private JspFactoryImpl factory;
    private Servlet servlet;
    private ServletRequest request;
    private ServletResponse response;
    private String errorPageURL;
    private boolean needsSession;
    private int bufferSize;
    private boolean autoflush;

    PrivilegedGetPageContext(JspFactoryImpl factory, Servlet servlet,
        ServletRequest request, ServletResponse response, String errorPageURL,
        boolean needsSession, int bufferSize, boolean autoflush) {
        this.factory = factory;
        this.servlet = servlet;
        this.request = request;
        this.response = response;
        this.errorPageURL = errorPageURL;
        this.needsSession = needsSession;
        this.bufferSize = bufferSize;
        this.autoflush = autoflush;
    }

    public Object run() {
        return factory.internalGetPageContext(servlet, request, response,
            errorPageURL, needsSession, bufferSize, autoflush);
    }
}

```

```

private class PrivilegedReleasePageContext implements PrivilegedAction {

```

```

    private JspFactoryImpl factory;
    private PageContext pageContext;

```

```

    PrivilegedReleasePageContext(JspFactoryImpl factory,
        PageContext pageContext) {
        this.factory = factory;
        this.pageContext = pageContext;
    }

```

```

    public Object run() {

```

```

        factory.internalReleasePageContext(pageContext);
        return null;
    }
}

protected final class PageContextPool {

    private PageContext[] pool;

    private int current = -1;

    public PageContextPool() {
        this.pool = new PageContext[POOL_SIZE];
    }

    public void put(PageContext o) {
        if (current < (POOL_SIZE - 1)) {
            current++;
            pool[current] = o;
        }
    }

    public PageContext get() {
        PageContext item = null;
        if (current >= 0) {
            item = pool[current];
            current--;
        }
        return item;
    }

}

public JspApplicationContext getJspApplicationContext(ServletContext context) {
    return JspApplicationContextImpl.getInstance(context);
}
}
/*
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```

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- */

```
package org.apache.jasper.runtime;

import java.io.IOException;
import java.io.Writer;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedActionException;
import java.security.PrivilegedExceptionAction;
import java.util.Enumeration;
import java.util.HashMap;

import javax.el.ELContext;
import javax.el.ExpressionFactory;
import javax.el.ValueExpression;
import javax.servlet.Servlet;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.ServletRequest;
import javax.servlet.ServletResponse;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import javax.servlet.jsp.JspException;
import javax.servlet.jsp.JspFactory;
import javax.servlet.jsp.JspWriter;
import javax.servlet.jsp.PageContext;
import javax.servlet.jsp.el.ELException;
import javax.servlet.jsp.el.ExpressionEvaluator;
import javax.servlet.jsp.el.VariableResolver;
import javax.servlet.jsp.tagext.BodyContent;

import org.apache.jasper.Constants;
import org.apache.jasper.compiler.Localizer;
import org.apache.jasper.el.ELContextImpl;
import org.apache.jasper.el.ExpressionEvaluatorImpl;
import org.apache.jasper.el.FunctionMapperImpl;
import org.apache.jasper.el.VariableResolverImpl;
import org.apache.jasper.security.SecurityUtil;
import org.apache.jasper.util.Enumerator;

/**
```

```

* Implementation of the PageContext class from the JSP spec. Also doubles as a
* VariableResolver for the EL.
*
* @author Anil K. Vijendran
* @author Larry Cable
* @author Hans Bergsten
* @author Pierre Delisle
* @author Mark Roth
* @author Jan Luehe
* @author Jacob Hookom
*/
public class PageContextImpl extends PageContext {

    private static final JspFactory jspf = JspFactory.getDefaultFactory();

    private BodyContentImpl[] outs;

    private int depth;

    // per-servlet state
    private Servlet servlet;

    private ServletConfig config;

    private ServletContext context;

    private JspApplicationContextImpl applicationContext;

    private String errorPageURL;

    // page-scope attributes
    private transient HashMap<String, Object> attributes;

    // per-request state
    private transient ServletRequest request;

    private transient ServletResponse response;

    private transient HttpSession session;

    private transient ELContextImpl elContext;

    private boolean isIncluded;

    // initial output stream
    private transient JspWriter out;

```

```

private transient JspWriterImpl baseOut;

/*
 * Constructor.
 */
PageContextImpl() {
    this.outs = new BodyContentImpl[0];
    this.attributes = new HashMap<String, Object>(16);
    this.depth = -1;
}

public void initialize(Servlet servlet, ServletRequest request,
    ServletResponse response, String errorPageURL,
    boolean needsSession, int bufferSize, boolean autoFlush)
    throws IOException {

    _initialize(servlet, request, response, errorPageURL, needsSession,
        bufferSize, autoFlush);
}

private void _initialize(Servlet servlet, ServletRequest request,
    ServletResponse response, String errorPageURL,
    boolean needsSession, int bufferSize, boolean autoFlush)
    throws IOException {

    // initialize state
    this.servlet = servlet;
    this.config = servlet.getServletConfig();
    this.context = config.getServletContext();
    this.errorPageURL = errorPageURL;
    this.request = request;
    this.response = response;

    // initialize application context
    this.applicationContext = JspApplicationContextImpl.getInstance(context);

    // Setup session (if required)
    if (request instanceof HttpServletRequest && needsSession)
        this.session = ((HttpServletRequest) request).getSession();
    if (needsSession && session == null)
        throw new IllegalStateException(
            "Page needs a session and none is available");

    // initialize the initial out ...
    depth = -1;
    if (this.baseOut == null) {
        this.baseOut = new JspWriterImpl(response, bufferSize, autoFlush);
    } else {

```

```

    this.baseOut.init(response, bufferSize, autoFlush);
}
this.out = baseOut;

// register names/values as per spec
setAttribute(OUT, this.out);
setAttribute(REQUEST, request);
setAttribute(RESPONSE, response);

if (session != null)
    setAttribute(SESSION, session);

setAttribute(PAGE, servlet);
setAttribute(CONFIG, config);
setAttribute(PAGECONTEXT, this);
setAttribute(APPLICATION, context);

isIncluded = request.getAttribute("javax.servlet.include.servlet_path") != null;
}

public void release() {
    out = baseOut;
    try {
        if (isIncluded) {
            ((JspWriterImpl) out).flushBuffer();
            // push it into the including jspWriter
        } else {
            // Old code:
            // out.flush();
            // Do not flush the buffer even if we're not included (i.e.
            // we are the main page. The servlet will flush it and close
            // the stream.
            ((JspWriterImpl) out).flushBuffer();
        }
    } catch (IOException ex) {
        IllegalStateException ise = new IllegalStateException(Localizer.getMessage("jsp.error.flush"), ex);
        throw ise;
    } finally {
        servlet = null;
        config = null;
        context = null;
        applicationContext = null;
        elContext = null;
        errorPageURL = null;
        request = null;
        response = null;
        depth = -1;
        baseOut.recycle();
    }
}

```



```

        session = null;
        attributes.clear();
    }
}

public Object getAttribute(final String name) {

    if (name == null) {
        throw new NullPointerException(Localizer
            .getMessage("jsp.error.attribute.null_name"));
    }

    if (SecurityUtil.isPackageProtectionEnabled()) {
        return AccessController.doPrivileged(new PrivilegedAction() {
            public Object run() {
                return doGetAttribute(name);
            }
        });
    } else {
        return doGetAttribute(name);
    }

}

private Object doGetAttribute(String name) {
    return attributes.get(name);
}

public Object getAttribute(final String name, final int scope) {

    if (name == null) {
        throw new NullPointerException(Localizer
            .getMessage("jsp.error.attribute.null_name"));
    }

    if (SecurityUtil.isPackageProtectionEnabled()) {
        return AccessController.doPrivileged(new PrivilegedAction() {
            public Object run() {
                return doGetAttribute(name, scope);
            }
        });
    } else {
        return doGetAttribute(name, scope);
    }

}

private Object doGetAttribute(String name, int scope) {

```

```

switch (scope) {
case PAGE_SCOPE:
return attributes.get(name);

case REQUEST_SCOPE:
return request.getAttribute(name);

case SESSION_SCOPE:
if (session == null) {
throw new IllegalStateException(Localizer
.getMessage("jsp.error.page.noSession"));
}
return session.getAttribute(name);

case APPLICATION_SCOPE:
return context.getAttribute(name);

default:
throw new IllegalArgumentException("Invalid scope");
}
}

public void setAttribute(final String name, final Object attribute) {

if (name == null) {
throw new NullPointerException(Localizer
.getMessage("jsp.error.attribute.null_name"));
}

if (SecurityUtil.isPackageProtectionEnabled()) {
AccessController.doPrivileged(new PrivilegedAction() {
public Object run() {
doSetAttribute(name, attribute);
return null;
}
});
} else {
doSetAttribute(name, attribute);
}
}

private void doSetAttribute(String name, Object attribute) {
if (attribute != null) {
attributes.put(name, attribute);
} else {
removeAttribute(name, PAGE_SCOPE);
}
}
}

```

```

public void setAttribute(final String name, final Object o, final int scope) {

    if (name == null) {
        throw new NullPointerException(Localizer
            .getMessage("jsp.error.attribute.null_name"));
    }

    if (SecurityUtil.isPackageProtectionEnabled()) {
        AccessController.doPrivileged(new PrivilegedAction() {
            public Object run() {
                doSetAttribute(name, o, scope);
                return null;
            }
        });
    } else {
        doSetAttribute(name, o, scope);
    }

}

private void doSetAttribute(String name, Object o, int scope) {
    if (o != null) {
        switch (scope) {
            case PAGE_SCOPE:
                attributes.put(name, o);
                break;

            case REQUEST_SCOPE:
                request.setAttribute(name, o);
                break;

            case SESSION_SCOPE:
                if (session == null) {
                    throw new IllegalStateException(Localizer
                        .getMessage("jsp.error.page.noSession"));
                }
                session.setAttribute(name, o);
                break;

            case APPLICATION_SCOPE:
                context.setAttribute(name, o);
                break;

            default:
                throw new IllegalArgumentException("Invalid scope");
        }
    } else {

```

```

removeAttribute(name, scope);
}
}

public void removeAttribute(final String name, final int scope) {

if (name == null) {
throw new NullPointerException(Localizer
.getMessage("jsp.error.attribute.null_name"));
}
if (SecurityUtil.isPackageProtectionEnabled()) {
AccessController.doPrivileged(new PrivilegedAction() {
public Object run() {
doRemoveAttribute(name, scope);
return null;
}
});
} else {
doRemoveAttribute(name, scope);
}
}

private void doRemoveAttribute(String name, int scope) {
switch (scope) {
case PAGE_SCOPE:
attributes.remove(name);
break;

case REQUEST_SCOPE:
request.removeAttribute(name);
break;

case SESSION_SCOPE:
if (session == null) {
throw new IllegalStateException(Localizer
.getMessage("jsp.error.page.noSession"));
}
session.removeAttribute(name);
break;

case APPLICATION_SCOPE:
context.removeAttribute(name);
break;

default:
throw new IllegalArgumentException("Invalid scope");
}
}
}

```

```

public int getAttributesScope(final String name) {

    if (name == null) {
        throw new NullPointerException(Localizer
            .getMessage("jsp.error.attribute.null_name"));
    }

    if (SecurityUtil.isPackageProtectionEnabled()) {
        return ((Integer) AccessController
            .doPrivileged(new PrivilegedAction() {
                public Object run() {
                    return new Integer(doGetAttributeScope(name));
                }
            })).intValue();
    } else {
        return doGetAttributeScope(name);
    }
}

private int doGetAttributeScope(String name) {
    if (attributes.get(name) != null)
        return PAGE_SCOPE;

    if (request.getAttribute(name) != null)
        return REQUEST_SCOPE;

    if (session != null) {
        if (session.getAttribute(name) != null)
            return SESSION_SCOPE;
    }

    if (context.getAttribute(name) != null)
        return APPLICATION_SCOPE;

    return 0;
}

public Object findAttribute(final String name) {
    if (SecurityUtil.isPackageProtectionEnabled()) {
        return AccessController.doPrivileged(new PrivilegedAction() {
            public Object run() {
                if (name == null) {
                    throw new NullPointerException(Localizer
                        .getMessage("jsp.error.attribute.null_name"));
                }

                return doFindAttribute(name);
            }
        });
    }
}

```

```

    }
    });
} else {
    if (name == null) {
        throw new NullPointerException(Localizer
            .getMessage("jsp.error.attribute.null_name"));
    }

    return doFindAttribute(name);
}
}

private Object doFindAttribute(String name) {

    Object o = attributes.get(name);
    if (o != null)
        return o;

    o = request.getAttribute(name);
    if (o != null)
        return o;

    if (session != null) {
        o = session.getAttribute(name);
        if (o != null)
            return o;
    }

    return context.getAttribute(name);
}

public Enumeration<String> getAttributeNamesInScope(final int scope) {
    if (SecurityUtil.isPackageProtectionEnabled()) {
        return (Enumeration) AccessController
            .doPrivileged(new PrivilegedAction() {
                public Object run() {
                    return doGetAttributeNamesInScope(scope);
                }
            });
    } else {
        return doGetAttributeNamesInScope(scope);
    }
}

private Enumeration doGetAttributeNamesInScope(int scope) {
    switch (scope) {
        case PAGE_SCOPE:
            return new Enumerator(attributes.keySet().iterator());
    }
}

```

```

case REQUEST_SCOPE:
return request.getAttributeNames();

case SESSION_SCOPE:
if (session == null) {
throw new IllegalStateException(Localizer
.getMessage("jsp.error.page.noSession"));
}
return session.getAttributeNames();

case APPLICATION_SCOPE:
return context.getAttributeNames();

default:
throw new IllegalArgumentException("Invalid scope");
}
}

public void removeAttribute(final String name) {

if (name == null) {
throw new NullPointerException(Localizer
.getMessage("jsp.error.attribute.null_name"));
}

if (SecurityUtil.isPackageProtectionEnabled()) {
AccessController.doPrivileged(new PrivilegedAction() {
public Object run() {
doRemoveAttribute(name);
return null;
}
});
} else {
doRemoveAttribute(name);
}
}

private void doRemoveAttribute(String name) {
try {
removeAttribute(name, PAGE_SCOPE);
removeAttribute(name, REQUEST_SCOPE);
if (session != null) {
removeAttribute(name, SESSION_SCOPE);
}
removeAttribute(name, APPLICATION_SCOPE);
} catch (Exception ex) {
// we remove as much as we can, and

```

```

    // simply ignore possible exceptions
    }
}

public JspWriter getOut() {
    return out;
}

public HttpSession getSession() {
    return session;
}

public Servlet getServlet() {
    return servlet;
}

public ServletConfig getServletConfig() {
    return config;
}

public ServletContext getServletContext() {
    return config.getServletContext();
}

public ServletRequest getRequest() {
    return request;
}

public ServletResponse getResponse() {
    return response;
}

/**
 * Returns the exception associated with this page context, if any. <p/>
 * Added wrapping for Throwables to avoid ClassCastException: see Bugzilla
 * 31171 for details.
 *
 * @return The Exception associated with this page context, if any.
 */
public Exception getException() {
    Throwable t = JspRuntimeLibrary.getThrowable(request);

    // Only wrap if needed
    if ((t != null) && !(t instanceof Exception)) {
        t = new JspException(t);
    }

    return (Exception) t;
}

```



```

}

public Object getPage() {
    return servlet;
}

private final String getAbsolutePathRelativeToContext(String relativeUrlPath) {
    String path = relativeUrlPath;

    if (!path.startsWith("/")) {
        String uri = (String) request
            .getAttribute("javax.servlet.include.servlet_path");
        if (uri == null)
            uri = ((HttpServletRequest) request).getServletPath();
        String baseURI = uri.substring(0, uri.lastIndexOf('/'));
        path = baseURI + '/' + path;
    }

    return path;
}

public void include(String relativeUrlPath) throws ServletException,
    IOException {
    JspRuntimeLibrary
        .include(request, response, relativeUrlPath, out, true);
}

public void include(final String relativeUrlPath, final boolean flush)
    throws ServletException, IOException {
    if (SecurityUtil.isPackageProtectionEnabled()) {
        try {
            AccessController.doPrivileged(new PrivilegedExceptionAction() {
                public Object run() throws Exception {
                    doInclude(relativeUrlPath, flush);
                    return null;
                }
            });
        } catch (PrivilegedActionException e) {
            Exception ex = e.getException();
            if (ex instanceof IOException) {
                throw (IOException) ex;
            } else {
                throw (ServletException) ex;
            }
        }
    } else {
        doInclude(relativeUrlPath, flush);
    }
}

```

```

}

private void doInclude(String relativeUrlPath, boolean flush)
    throws ServletException, IOException {
    JspRuntimeLibrary.include(request, response, relativeUrlPath, out,
        flush);
}

public VariableResolver getVariableResolver() {
    return new VariableResolverImpl(this.getELContext());
}

public void forward(final String relativeUrlPath) throws ServletException,
    IOException {
    if (SecurityUtil.isPackageProtectionEnabled()) {
        try {
            AccessController.doPrivileged(new PrivilegedExceptionAction() {
                public Object run() throws Exception {
                    doForward(relativeUrlPath);
                    return null;
                }
            });
        } catch (PrivilegedActionException e) {
            Exception ex = e.getException();
            if (ex instanceof IOException) {
                throw (IOException) ex;
            } else {
                throw (ServletException) ex;
            }
        } else {
            doForward(relativeUrlPath);
        }
    }
}

private void doForward(String relativeUrlPath) throws ServletException,
    IOException {

    // JSP.4.5 If the buffer was flushed, throw IllegalStateException
    try {
        out.clear();
    } catch (IOException ex) {
        IllegalStateException ise = new IllegalStateException(Localizer
            .getMessage("jsp.error.attempt_to_clear_flushed_buffer"));
        ise.initCause(ex);
        throw ise;
    }
}

```

```

// Make sure that the response object is not the wrapper for include
while (response instanceof ServletResponseWrapperInclude) {
    response = ((ServletResponseWrapperInclude) response).getResponse();
}

final String path = getAbsolutePathRelativeToContext(relativeUriPath);
String includeUri = (String) request
    .getAttribute(Constants.INC_SERVLET_PATH);

if (includeUri != null)
    request.removeAttribute(Constants.INC_SERVLET_PATH);
try {
    context.getRequestDispatcher(path).forward(request, response);
} finally {
    if (includeUri != null)
        request.setAttribute(Constants.INC_SERVLET_PATH, includeUri);
}
}

public BodyContent pushBody() {
    return (BodyContent) pushBody(null);
}

public JspWriter pushBody(Writer writer) {
    depth++;
    if (depth >= outs.length) {
        BodyContentImpl[] newOuts = new BodyContentImpl[depth + 1];
        for (int i = 0; i < outs.length; i++) {
            newOuts[i] = outs[i];
        }
        newOuts[depth] = new BodyContentImpl(out);
        outs = newOuts;
    }

    outs[depth].setWriter(writer);
    out = outs[depth];

    // Update the value of the "out" attribute in the page scope
    // attribute namespace of this PageContext
    setAttribute(OUT, out);

    return outs[depth];
}

public JspWriter popBody() {
    depth--;
    if (depth >= 0) {
        out = outs[depth];
    }
}

```

```

    } else {
        out = baseOut;
    }

    // Update the value of the "out" attribute in the page scope
    // attribute namespace of this PageContext
    setAttribute(OUT, out);

    return out;
}

/**
 * Provides programmatic access to the ExpressionEvaluator. The JSP
 * Container must return a valid instance of an ExpressionEvaluator that can
 * parse EL expressions.
 */
public ExpressionEvaluator getExpressionEvaluator() {
    return new ExpressionEvaluatorImpl(this.applicationContext.getExpressionFactory());
}

public void handlePageException(Exception ex) throws IOException,
    ServletException {
    // Should never be called since handleException() called with a
    // Throwable in the generated servlet.
    handlePageException((Throwable) ex);
}

public void handlePageException(final Throwable t) throws IOException,
    ServletException {
    if (t == null)
        throw new NullPointerException("null Throwable");

    if (SecurityUtil.isPackageProtectionEnabled()) {
        try {
            AccessController.doPrivileged(new PrivilegedExceptionAction() {
                public Object run() throws Exception {
                    doHandlePageException(t);
                    return null;
                }
            });
        } catch (PrivilegedActionException e) {
            Exception ex = e.getException();
            if (ex instanceof IOException) {
                throw (IOException) ex;
            } else {
                throw (ServletException) ex;
            }
        }
    }
}

```

```

    } else {
        doHandlePageException(t);
    }

}

private void doHandlePageException(Throwable t) throws IOException,
    ServletException {

    if (errorPageURL != null && !errorPageURL.equals("")) {

        /*
         * Set request attributes. Do not set the
         * javax.servlet.error.exception attribute here (instead, set in the
         * generated servlet code for the error page) in order to prevent
         * the ErrorReportValve, which is invoked as part of forwarding the
         * request to the error page, from throwing it if the response has
         * not been committed (the response will have been committed if the
         * error page is a JSP page).
         */
        request.setAttribute("javax.servlet.jsp.jspException", t);
        request.setAttribute("javax.servlet.error.status_code",
            new Integer(HttpServletResponse.SC_INTERNAL_SERVER_ERROR));
        request.setAttribute("javax.servlet.error.request_uri",
            ((HttpServletRequest) request).getRequestURI());
        request.setAttribute("javax.servlet.error.servlet_name", config
            .getServletName());
        try {
            forward(errorPageURL);
        } catch (IllegalStateException ise) {
            include(errorPageURL);
        }

        // The error page could be inside an include.

        Object newException = request
            .getAttribute("javax.servlet.error.exception");

        // t==null means the attribute was not set.
        if ((newException != null) && (newException == t)) {
            request.removeAttribute("javax.servlet.error.exception");
        }

        // now clear the error code - to prevent double handling.
        request.removeAttribute("javax.servlet.error.status_code");
        request.removeAttribute("javax.servlet.error.request_uri");
        request.removeAttribute("javax.servlet.error.status_code");
        request.removeAttribute("javax.servlet.jsp.jspException");
    }
}

```

```

} else {
// Otherwise throw the exception wrapped inside a ServletException.
// Set the exception as the root cause in the ServletException
// to get a stack trace for the real problem
if (t instanceof IOException)
    throw (IOException) t;
if (t instanceof ServletException)
    throw (ServletException) t;
if (t instanceof RuntimeException)
    throw (RuntimeException) t;

Throwable rootCause = null;
if (t instanceof JspException) {
    rootCause = ((JspException) t).getRootCause();
} else if (t instanceof ELException) {
    rootCause = ((ELException) t).getRootCause();
}

if (rootCause != null) {
    throw new ServletException(t.getClass().getName() + ": "
        + t.getMessage(), rootCause);
}

throw new ServletException(t);
}
}

private static String XmlEscape(String s) {
if (s == null)
    return null;
StringBuilder sb = new StringBuilder();
for (int i = 0; i < s.length(); i++) {
    char c = s.charAt(i);
    if (c == '<') {
        sb.append("&lt;");
    } else if (c == '>') {
        sb.append("&gt;");
    } else if (c == "\\") {
        sb.append("&#039;"); // &apos;
    } else if (c == '&') {
        sb.append("&amp;");
    } else if (c == '"') {
        sb.append("&#034;"); // &quot;
    } else {
        sb.append(c);
    }
}
}
}

```

```

return sb.toString();
}

/**
 * Proprietary method to evaluate EL expressions. XXX - This method should
 * go away once the EL interpreter moves out of JSTL and into its own
 * project. For now, this is necessary because the standard machinery is too
 * slow.
 *
 * @param expression
 *       The expression to be evaluated
 * @param expectedType
 *       The expected resulting type
 * @param pageContext
 *       The page context
 * @param functionMap
 *       Maps prefix and name to Method
 * @return The result of the evaluation
 */
public static Object proprietaryEvaluate(final String expression,
    final Class expectedType, final PageContext pageContext,
    final ProtectedFunctionMapper functionMap, final boolean escape)
    throws ELException {
    Object retValue;
    final ExpressionFactory exprFactory =
jspf.getJspApplicationContext(pageContext.getServletContext()).getExpressionFactory();
    if (SecurityUtil.isPackageProtectionEnabled()) {
        try {
            retValue = AccessController
                .doPrivileged(new PrivilegedExceptionAction() {

                    public Object run() throws Exception {
                        ELContextImpl ctx = (ELContextImpl) pageContext.getELContext();
                        ctx.setFunctionMapper(new FunctionMapperImpl(functionMap));
                        ValueExpression ve = exprFactory.createValueExpression(ctx, expression, expectedType);
                        return ve.getValue(ctx);
                    }
                });
        } catch (PrivilegedActionException ex) {
            Exception realEx = ex.getException();
            if (realEx instanceof ELException) {
                throw (ELException) realEx;
            } else {
                throw new ELException(realEx);
            }
        }
    } else {
        ELContextImpl ctx = (ELContextImpl) pageContext.getELContext();

```

```

        ctx.setFunctionMapper(new FunctionMapperImpl(functionMap));
        ValueExpression ve = exprFactory.createValueExpression(ctx, expression, expectedType);
        retValue = ve.getValue(ctx);
    }
    if (escape && retValue != null) {
        retValue = XmlEscape(retValue.toString());
    }

    return retValue;
}

public ELContext getELContext() {
    if (this.elContext == null) {
        this.elContext = this.applicationContext.createELContext(this);
    }
    return this.elContext;
}

}
/*
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 * contributor license agreements. See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.apache.jasper.runtime;

import java.io.IOException;
import java.io.Writer;
import java.security.AccessController;
import java.security.PrivilegedAction;

import javax.servlet.ServletResponse;
import javax.servlet.jsp.JspWriter;

import org.apache.jasper.Constants;
import org.apache.jasper.compiler.Localizer;

```



```

import org.apache.jasper.security.SecurityUtil;

/**
 * Write text to a character-output stream, buffering characters so as
 * to provide for the efficient writing of single characters, arrays,
 * and strings.
 *
 * Provide support for discarding for the output that has been
 * buffered.
 *
 * This needs revisiting when the buffering problems in the JSP spec
 * are fixed -akv
 *
 * @author Anil K. Vijendran
 */
public class JspWriterImpl extends JspWriter {

    private Writer out;
    private ServletResponse response;
    private char cb[];
    private int nextChar;
    private boolean flushed = false;
    private boolean closed = false;

    public JspWriterImpl() {
        super( Constants.DEFAULT_BUFFER_SIZE, true );
    }

    /**
     * Create a buffered character-output stream that uses a default-sized
     * output buffer.
     *
     * @param response A Servlet Response
     */
    public JspWriterImpl(ServletResponse response) {
        this(response, Constants.DEFAULT_BUFFER_SIZE, true);
    }

    /**
     * Create a new buffered character-output stream that uses an output
     * buffer of the given size.
     *
     * @param response A Servlet Response
     * @param sz Output-buffer size, a positive integer
     *
     * @exception IllegalArgumentException If sz is <= 0
     */
    public JspWriterImpl(ServletResponse response, int sz,

```

```

        boolean autoFlush) {
    super(sz, autoFlush);
    if (sz < 0)
        throw new IllegalArgumentException("Buffer size <= 0");
    this.response = response;
    cb = sz == 0 ? null : new char[sz];
    nextChar = 0;
}

void init( ServletResponse response, int sz, boolean autoFlush ) {
    this.response= response;
    if( sz > 0 && ( cb == null || sz > cb.length ) )
        cb=new char[sz];
    nextChar = 0;
    this.autoFlush=autoFlush;
    this.bufferSize=sz;
}

/** Package-level access
 */
void recycle() {
    flushed = false;
    closed = false;
    out = null;
    nextChar = 0;
    response = null;
}

/**
 * Flush the output buffer to the underlying character stream, without
 * flushing the stream itself. This method is non-private only so that it
 * may be invoked by PrintStream.
 */
protected final void flushBuffer() throws IOException {
    if (bufferSize == 0)
        return;
    flushed = true;
    ensureOpen();
    if (nextChar == 0)
        return;
    initOut();
    out.write(cb, 0, nextChar);
    nextChar = 0;
}

private void initOut() throws IOException {
    if (out == null) {
        out = response.getWriter();
    }
}

```

```

    }
}

private String getLocalizedMessage(final String message){
    if (SecurityUtil.isPackageProtectionEnabled()){
        return (String)AccessController.doPrivileged(new PrivilegedAction(){
            public Object run(){
                return Localizer.getMessage(message);
            }
        });
    } else {
        return Localizer.getMessage(message);
    }
}

/**
 * Discard the output buffer.
 */
public final void clear() throws IOException {
    if ((bufferSize == 0) && (out != null))
        // clear() is illegal after any unbuffered output (JSP.5.5)
        throw new IllegalStateException(
            getLocalizedMessage("jsp.error.ise_on_clear"));
    if (flushed)
        throw new IOException(
            getLocalizedMessage("jsp.error.attempt_to_clear_flushed_buffer"));
    ensureOpen();
    nextChar = 0;
}

public void clearBuffer() throws IOException {
    if (bufferSize == 0)
        throw new IllegalStateException(
            getLocalizedMessage("jsp.error.ise_on_clear"));
    ensureOpen();
    nextChar = 0;
}

private final void bufferOverflow() throws IOException {
    throw new IOException(getLocalizedMessage("jsp.error.overflow"));
}

/**
 * Flush the stream.
 */
public void flush() throws IOException {
    flushBuffer();
}

```

```

        if (out != null) {
            out.flush();
        }
    }

/**
 * Close the stream.
 *
 */
public void close() throws IOException {
    if (response == null || closed)
        // multiple calls to close is OK
        return;
    flush();
    if (out != null)
        out.close();
    out = null;
    closed = true;
}

/**
 * @return the number of bytes unused in the buffer
 */
public int getRemaining() {
    return bufferSize - nextChar;
}

/** check to make sure that the stream has not been closed */
private void ensureOpen() throws IOException {
    if (response == null || closed)
        throw new IOException("Stream closed");
}

/**
 * Write a single character.
 */
public void write(int c) throws IOException {
    ensureOpen();
    if (bufferSize == 0) {
        initOut();
        out.write(c);
    }
    else {
        if (nextChar >= bufferSize)
            if (autoFlush)
                flushBuffer();
        else

```

```

        bufferOverflow();
        cb[nextChar++] = (char) c;
    }
}

/**
 * Our own little min method, to avoid loading java.lang.Math if we've run
 * out of file descriptors and we're trying to print a stack trace.
 */
private int min(int a, int b) {
    if (a < b) return a;
    return b;
}

/**
 * Write a portion of an array of characters.
 *
 * <p> Ordinarily this method stores characters from the given array into
 * this stream's buffer, flushing the buffer to the underlying stream as
 * needed. If the requested length is at least as large as the buffer,
 * however, then this method will flush the buffer and write the characters
 * directly to the underlying stream. Thus redundant
 * <code>DiscardableBufferedWriter</code>s will not copy data unnecessarily.
 *
 * @param cbuf A character array
 * @param off Offset from which to start reading characters
 * @param len Number of characters to write
 */
public void write(char cbuf[], int off, int len)
throws IOException
{
    ensureOpen();

    if (bufferSize == 0) {
        initOut();
        out.write(cbuf, off, len);
        return;
    }

    if ((off < 0) || (off > cbuf.length) || (len < 0) ||
        ((off + len) > cbuf.length) || ((off + len) < 0)) {
        throw new IndexOutOfBoundsException();
    } else if (len == 0) {
        return;
    }

    if (len >= bufferSize) {
        /* If the request length exceeds the size of the output buffer,

```

```

        flush the buffer and then write the data directly. In this
        way buffered streams will cascade harmlessly. */
    if (autoFlush)
        flushBuffer();
    else
        bufferOverflow();
    initOut();
    out.write(cbuf, off, len);
    return;
}

int b = off, t = off + len;
while (b < t) {
    int d = min(bufferSize - nextChar, t - b);
    System.arraycopy(cbuf, b, cb, nextChar, d);
    b += d;
    nextChar += d;
    if (nextChar >= bufferSize)
        if (autoFlush)
            flushBuffer();
        else
            bufferOverflow();
}
}

/**
 * Write an array of characters. This method cannot be inherited from the
 * Writer class because it must suppress I/O exceptions.
 */
public void write(char buf[]) throws IOException {
    write(buf, 0, buf.length);
}

/**
 * Write a portion of a String.
 *
 * @param s String to be written
 * @param off Offset from which to start reading characters
 * @param len Number of characters to be written
 */
public void write(String s, int off, int len) throws IOException {
    ensureOpen();
    if (bufferSize == 0) {
        initOut();
        out.write(s, off, len);
        return;
    }
}

```

```

int b = off, t = off + len;
while (b < t) {
    int d = min(bufferSize - nextChar, t - b);
    s.getChars(b, b + d, cb, nextChar);
    b += d;
    nextChar += d;
    if (nextChar >= bufferSize)
        if (autoFlush)
            flushBuffer();
        else
            bufferOverflow();
    }
}

/**
 * Write a string. This method cannot be inherited from the Writer class
 * because it must suppress I/O exceptions.
 */
public void write(String s) throws IOException {
    // Simple fix for Bugzilla 35410
    // Calling the other write function so as to init the buffer anyways
    if(s == null) {
        write(s, 0, 0);
    } else {
        write(s, 0, s.length());
    }
}

static String lineSeparator = System.getProperty("line.separator");

/**
 * Write a line separator. The line separator string is defined by the
 * system property <tt>line.separator</tt>, and is not necessarily a single
 * newline ('\n') character.
 *
 * @exception IOException If an I/O error occurs
 */

public void newLine() throws IOException {
    write(lineSeparator);
}

/* Methods that do not terminate lines */

/**
 * Print a boolean value. The string produced by <code>{@link

```

```

* java.lang.String#valueOf(boolean)}</code> is translated into bytes
* according to the platform's default character encoding, and these bytes
* are written in exactly the manner of the <code>{@link
* #write(int)}</code> method.
*
* @param    b  The <code>boolean</code> to be printed
*/
public void print(boolean b) throws IOException {
    write(b ? "true" : "false");
}

/**
* Print a character. The character is translated into one or more bytes
* according to the platform's default character encoding, and these bytes
* are written in exactly the manner of the <code>{@link
* #write(int)}</code> method.
*
* @param    c  The <code>char</code> to be printed
*/
public void print(char c) throws IOException {
    write(String.valueOf(c));
}

/**
* Print an integer. The string produced by <code>{@link
* java.lang.String#valueOf(int)}</code> is translated into bytes according
* to the platform's default character encoding, and these bytes are
* written in exactly the manner of the <code>{@link #write(int)}</code>
* method.
*
* @param    i  The <code>int</code> to be printed
*/
public void print(int i) throws IOException {
    write(String.valueOf(i));
}

/**
* Print a long integer. The string produced by <code>{@link
* java.lang.String#valueOf(long)}</code> is translated into bytes
* according to the platform's default character encoding, and these bytes
* are written in exactly the manner of the <code>{@link #write(int)}</code>
* method.
*
* @param    l  The <code>long</code> to be printed
*/
public void print(long l) throws IOException {
    write(String.valueOf(l));
}

```



```

/**
 * Print a floating-point number. The string produced by { @link
 * java.lang.String#valueOf(float)} is translated into bytes
 * according to the platform's default character encoding, and these bytes
 * are written in exactly the manner of the { @link #write(int)}
 * method.
 *
 * @param f The float to be printed
 */
public void print(float f) throws IOException {
    write(String.valueOf(f));
}

```

```

/**
 * Print a double-precision floating-point number. The string produced by
 * { @link java.lang.String#valueOf(double)} is translated into
 * bytes according to the platform's default character encoding, and these
 * bytes are written in exactly the manner of the { @link
 * #write(int)} method.
 *
 * @param d The double to be printed
 */
public void print(double d) throws IOException {
    write(String.valueOf(d));
}

```

```

/**
 * Print an array of characters. The characters are converted into bytes
 * according to the platform's default character encoding, and these bytes
 * are written in exactly the manner of the { @link #write(int)}
 * method.
 *
 * @param s The array of chars to be printed
 *
 * @throws NullPointerException If s is null
 */
public void print(char s[]) throws IOException {
    write(s);
}

```

```

/**
 * Print a string. If the argument is null then the string
 * "null" is printed. Otherwise, the string's characters are
 * converted into bytes according to the platform's default character
 * encoding, and these bytes are written in exactly the manner of the
 * { @link #write(int)} method.
 *

```

```

* @param    s  The <code>String</code> to be printed
*/
public void print(String s) throws IOException {
    if (s == null) {
        s = "null";
    }
    write(s);
}

/**
* Print an object. The string produced by the <code>{@link
* java.lang.String#valueOf(Object)}</code> method is translated into bytes
* according to the platform's default character encoding, and these bytes
* are written in exactly the manner of the <code>{@link #write(int)}</code>
* method.
*
* @param    obj  The <code>Object</code> to be printed
*/
public void print(Object obj) throws IOException {
    write(String.valueOf(obj));
}

/* Methods that do terminate lines */

/**
* Terminate the current line by writing the line separator string. The
* line separator string is defined by the system property
* <code>line.separator</code>, and is not necessarily a single newline
* character (<code>\n</code>).
*
* Need to change this from PrintWriter because the default
* println() writes to the sink directly instead of through the
* write method...
*/
public void println() throws IOException {
    newLine();
}

/**
* Print a boolean value and then terminate the line. This method behaves
* as though it invokes <code>{@link #print(boolean)}</code> and then
* <code>{@link #println()}</code>.
*/
public void println(boolean x) throws IOException {
    print(x);
    println();
}

```

```

/**
 * Print a character and then terminate the line. This method behaves as
 * though it invokes { @link #print(char)} and then { @link
 * #println()}.
 */
public void println(char x) throws IOException {
    print(x);
    println();
}

/**
 * Print an integer and then terminate the line. This method behaves as
 * though it invokes { @link #print(int)} and then { @link
 * #println()}.
 */
public void println(int x) throws IOException {
    print(x);
    println();
}

/**
 * Print a long integer and then terminate the line. This method behaves
 * as though it invokes { @link #print(long)} and then
 * { @link #println()}.
 */
public void println(long x) throws IOException {
    print(x);
    println();
}

/**
 * Print a floating-point number and then terminate the line. This method
 * behaves as though it invokes { @link #print(float)} and then
 * { @link #println()}.
 */
public void println(float x) throws IOException {
    print(x);
    println();
}

/**
 * Print a double-precision floating-point number and then terminate the
 * line. This method behaves as though it invokes { @link
 * #print(double)} and then { @link #println()}.
 */
public void println(double x) throws IOException {
    print(x);
    println();
}

```

```

}

/**
 * Print an array of characters and then terminate the line. This method
 * behaves as though it invokes { @link #print(char[])} and then
 * { @link #println()}.
 */
public void println(char x[]) throws IOException {
    print(x);
    println();
}

/**
 * Print a String and then terminate the line. This method behaves as
 * though it invokes { @link #print(String)} and then
 * { @link #println()}.
 */
public void println(String x) throws IOException {
    print(x);
    println();
}

/**
 * Print an Object and then terminate the line. This method behaves as
 * though it invokes { @link #print(Object)} and then
 * { @link #println()}.
 */
public void println(Object x) throws IOException {
    print(x);
    println();
}
}

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.

```

```

*/
package org.apache.jasper.runtime;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;

import javax.el.ArrayELResolver;
import javax.el.BeanELResolver;
import javax.el.CompositeELResolver;
import javax.el.ELContextEvent;
import javax.el.ELContextListener;
import javax.el.ELResolver;
import javax.el.ExpressionFactory;
import javax.el.ListELResolver;
import javax.el.MapELResolver;
import javax.el.ResourceBundleELResolver;
import javax.servlet.ServletContext;
import javax.servlet.jsp.JspApplicationContext;
import javax.servlet.jsp.JspContext;
import javax.servlet.jsp.el.ImplicitObjectELResolver;
import javax.servlet.jsp.el.ScopedAttributeELResolver;

import org.apache.el.ExpressionFactoryImpl;
import org.apache.jasper.el.ELContextImpl;

/**
 * Implementation of JspApplicationContext
 *
 * @author Jacob Hookom
 */
public class JspApplicationContextImpl implements JspApplicationContext {

    private final static String KEY = JspApplicationContextImpl.class.getName();

    private final static ExpressionFactory expressionFactory = new ExpressionFactoryImpl();

    private final List<ELContextListener> contextListeners = new ArrayList<ELContextListener>();

    private final List<ELResolver> resolvers = new ArrayList<ELResolver>();

    private boolean instantiated = false;

    private ELResolver resolver;

    public JspApplicationContextImpl() {

    }

```

```

public void addELContextListener(ELContextListener listener) {
    if (listener == null) {
        throw new IllegalArgumentException("ELContextListener was null");
    }
    this.contextListeners.add(listener);
}

public static JspApplicationContextImpl getInstance(ServletContext context) {
    if (context == null) {
        throw new IllegalArgumentException("ServletContext was null");
    }
    JspApplicationContextImpl impl = (JspApplicationContextImpl) context
        .getAttribute(KEY);
    if (impl == null) {
        impl = new JspApplicationContextImpl();
        context.setAttribute(KEY, impl);
    }
    return impl;
}

public ELContextImpl createELContext(JspContext context) {
    if (context == null) {
        throw new IllegalArgumentException("JspContext was null");
    }

    // create ELContext for JspContext
    ELResolver r = this.createELResolver();
    ELContextImpl ctx = new ELContextImpl(r);
    ctx.putContext(JspContext.class, context);

    // alert all ELContextListeners
    ELContextEvent event = new ELContextEvent(ctx);
    for (int i = 0; i < this.contextListeners.size(); i++) {
        this.contextListeners.get(i).contextCreated(event);
    }

    return ctx;
}

private ELResolver createELResolver() {
    this.instantiated = true;
    if (this.resolver == null) {
        CompositeELResolver r = new CompositeELResolver();
        r.add(new ImplicitObjectELResolver());
        for (Iterator itr = this.resolvers.iterator(); itr.hasNext();) {
            r.add((ELResolver) itr.next());
        }
    }
}

```

```

r.add(new MapELResolver());
r.add(new ResourceBundleELResolver());
r.add(new ListELResolver());
r.add(new ArrayELResolver());
r.add(new BeanELResolver());
r.add(new ScopedAttributeELResolver());
this.resolver = r;
}
return this.resolver;
}

public void addELResolver(ELResolver resolver) throws IllegalStateException {
if (resolver == null) {
throw new IllegalArgumentException("ELResolver was null");
}
if (this.instantiated) {
throw new IllegalStateException(
"cannot call addELResolver after the first request has been made");
}
this.resolvers.add(resolver);
}

public ExpressionFactory getExpressionFactory() {
return expressionFactory;
}
}
/*
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* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

package org.apache.jasper.runtime;

import java.io.CharArrayReader;
import java.io.IOException;

```

```

import java.io.Reader;
import java.io.Writer;

import javax.servlet.jsp.JspWriter;
import javax.servlet.jsp.tagext.BodyContent;

import org.apache.jasper.Constants;

/**
 * Write text to a character-output stream, buffering characters so as
 * to provide for the efficient writing of single characters, arrays,
 * and strings.
 *
 * Provide support for discarding for the output that has been buffered.
 *
 * @author Rajiv Mordani
 * @author Jan Luehe
 */
public class BodyContentImpl extends BodyContent {

    private static final String LINE_SEPARATOR =
        System.getProperty("line.separator");
    private static final boolean LIMIT_BUFFER =
        Boolean.valueOf(System.getProperty("org.apache.jasper.runtime.BodyContentImpl.LIMIT_BUFFER",
"false")).booleanValue();

    private char[] cb;
    private int nextChar;
    private boolean closed;

    // Enclosed writer to which any output is written
    private Writer writer;

    // See comment in setWriter()
    private int bufferSizeSave;

    /**
     * Constructor.
     */
    public BodyContentImpl(JspWriter enclosingWriter) {
        super(enclosingWriter);
        bufferSize = Constants.DEFAULT_TAG_BUFFER_SIZE;
        cb = new char[bufferSize];
        nextChar = 0;
        closed = false;
    }

    /**

```



```

* Write a single character.
*/
public void write(int c) throws IOException {
    if (writer != null) {
        writer.write(c);
    } else {
        ensureOpen();
        if (nextChar >= bufferSize) {
            reAllocBuff (1);
        }
        cb[nextChar++] = (char) c;
    }
}

/**
* Write a portion of an array of characters.
*
* <p> Ordinarily this method stores characters from the given array into
* this stream's buffer, flushing the buffer to the underlying stream as
* needed. If the requested length is at least as large as the buffer,
* however, then this method will flush the buffer and write the characters
* directly to the underlying stream. Thus redundant
* <code>DiscardableBufferedWriter</code>s will not copy data
* unnecessarily.
*
* @param cbuf A character array
* @param off Offset from which to start reading characters
* @param len Number of characters to write
*/
public void write(char[] cbuf, int off, int len) throws IOException {
    if (writer != null) {
        writer.write(cbuf, off, len);
    } else {
        ensureOpen();

        if ((off < 0) || (off > cbuf.length) || (len < 0) ||
            ((off + len) > cbuf.length) || ((off + len) < 0)) {
            throw new IndexOutOfBoundsException();
        } else if (len == 0) {
            return;
        }

        if (len >= bufferSize - nextChar)
            reAllocBuff (len);

        System.arraycopy(cbuf, off, cb, nextChar, len);
        nextChar+=len;
    }
}

```

```

}

/**
 * Write an array of characters. This method cannot be inherited from the
 * Writer class because it must suppress I/O exceptions.
 */
public void write(char[] buf) throws IOException {
    if (writer != null) {
        writer.write(buf);
    } else {
        write(buf, 0, buf.length);
    }
}

/**
 * Write a portion of a String.
 *
 * @param s String to be written
 * @param off Offset from which to start reading characters
 * @param len Number of characters to be written
 */
public void write(String s, int off, int len) throws IOException {
    if (writer != null) {
        writer.write(s, off, len);
    } else {
        ensureOpen();
        if (len >= bufferSize - nextChar)
            reAllocBuff(len);

        s.getChars(off, off + len, cb, nextChar);
        nextChar += len;
    }
}

/**
 * Write a string. This method cannot be inherited from the Writer class
 * because it must suppress I/O exceptions.
 */
public void write(String s) throws IOException {
    if (writer != null) {
        writer.write(s);
    } else {
        write(s, 0, s.length());
    }
}

/**
 * Write a line separator. The line separator string is defined by the

```

```

* system property <code>line.separator</code>, and is not necessarily a single
* newline ('\n') character.
*
* @throws IOException If an I/O error occurs
*/
public void newLine() throws IOException {
    if (writer != null) {
        writer.write(LINE_SEPARATOR);
    } else {
        write(LINE_SEPARATOR);
    }
}

/**
* Print a boolean value. The string produced by <code>{@link
* java.lang.String#valueOf(boolean)}</code> is translated into bytes
* according to the platform's default character encoding, and these bytes
* are written in exactly the manner of the <code>{@link
* #write(int)}</code> method.
*
* @param b The <code>boolean</code> to be printed
* @throws IOException
*/
public void print(boolean b) throws IOException {
    if (writer != null) {
        writer.write(b ? "true" : "false");
    } else {
        write(b ? "true" : "false");
    }
}

/**
* Print a character. The character is translated into one or more bytes
* according to the platform's default character encoding, and these bytes
* are written in exactly the manner of the <code>{@link
* #write(int)}</code> method.
*
* @param c The <code>char</code> to be printed
* @throws IOException
*/
public void print(char c) throws IOException {
    if (writer != null) {
        writer.write(String.valueOf(c));
    } else {
        write(String.valueOf(c));
    }
}

```

```

/**
 * Print an integer. The string produced by { @link
 * java.lang.String#valueOf(int)} is translated into bytes according
 * to the platform's default character encoding, and these bytes are
 * written in exactly the manner of the { @link #write(int)}
 * method.
 *
 * @param i The int to be printed
 * @throws IOException
 */
public void print(int i) throws IOException {
    if (writer != null) {
        writer.write(String.valueOf(i));
    } else {
        write(String.valueOf(i));
    }
}

```

```

/**
 * Print a long integer. The string produced by { @link
 * java.lang.String#valueOf(long)} is translated into bytes
 * according to the platform's default character encoding, and these bytes
 * are written in exactly the manner of the
 * { @link #write(int)} method.
 *
 * @param l The long to be printed
 * @throws IOException
 */
public void print(long l) throws IOException {
    if (writer != null) {
        writer.write(String.valueOf(l));
    } else {
        write(String.valueOf(l));
    }
}

```

```

/**
 * Print a floating-point number. The string produced by { @link
 * java.lang.String#valueOf(float)} is translated into bytes
 * according to the platform's default character encoding, and these bytes
 * are written in exactly the manner of the
 * { @link #write(int)} method.
 *
 * @param f The float to be printed
 * @throws IOException
 */
public void print(float f) throws IOException {
    if (writer != null) {

```

```

        writer.write(String.valueOf(f));
    } else {
        write(String.valueOf(f));
    }
}

/**
 * Print a double-precision floating-point number. The string produced by
 * { @link java.lang.String#valueOf(double)} is translated into
 * bytes according to the platform's default character encoding, and these
 * bytes are written in exactly the manner of the { @link
 * #write(int)} method.
 *
 * @param d The double to be printed
 * @throws IOException
 */
public void print(double d) throws IOException {
    if (writer != null) {
        writer.write(String.valueOf(d));
    } else {
        write(String.valueOf(d));
    }
}

/**
 * Print an array of characters. The characters are converted into bytes
 * according to the platform's default character encoding, and these bytes
 * are written in exactly the manner of the
 * { @link #write(int)} method.
 *
 * @param s The array of chars to be printed
 *
 * @throws NullPointerException If s is null
 * @throws IOException
 */
public void print(char[] s) throws IOException {
    if (writer != null) {
        writer.write(s);
    } else {
        write(s);
    }
}

/**
 * Print a string. If the argument is null then the string
 * "null" is printed. Otherwise, the string's characters are
 * converted into bytes according to the platform's default character
 * encoding, and these bytes are written in exactly the manner of the

```

```

* <code>{@link #write(int)}</code> method.
*
* @param s The <code>String</code> to be printed
* @throws IOException
*/
public void print(String s) throws IOException {
    if (s == null) s = "null";
    if (writer != null) {
        writer.write(s);
    } else {
        write(s);
    }
}

/**
* Print an object. The string produced by the <code>{@link
* java.lang.String#valueOf(Object)}</code> method is translated into bytes
* according to the platform's default character encoding, and these bytes
* are written in exactly the manner of the
* <code>{@link #write(int)}</code> method.
*
* @param obj The <code>Object</code> to be printed
* @throws IOException
*/
public void print(Object obj) throws IOException {
    if (writer != null) {
        writer.write(String.valueOf(obj));
    } else {
        write(String.valueOf(obj));
    }
}

/**
* Terminate the current line by writing the line separator string. The
* line separator string is defined by the system property
* <code>line.separator</code>, and is not necessarily a single newline
* character (<code>"\n"</code>).
*
* @throws IOException
*/
public void println() throws IOException {
    newLine();
}

/**
* Print a boolean value and then terminate the line. This method behaves
* as though it invokes <code>{@link #print(boolean)}</code> and then
* <code>{@link #println()}</code>.

```

```

*
* @throws IOException
*/
public void println(boolean x) throws IOException {
    print(x);
    println();
}

/**
 * Print a character and then terminate the line. This method behaves as
 * though it invokes { @link #print(char)} and then
 * { @link #println()}.
 *
 * @throws IOException
 */
public void println(char x) throws IOException {
    print(x);
    println();
}

/**
 * Print an integer and then terminate the line. This method behaves as
 * though it invokes { @link #print(int)} and then
 * { @link #println()}.
 *
 * @throws IOException
 */
public void println(int x) throws IOException {
    print(x);
    println();
}

/**
 * Print a long integer and then terminate the line. This method behaves
 * as though it invokes { @link #print(long)} and then
 * { @link #println()}.
 *
 * @throws IOException
 */
public void println(long x) throws IOException {
    print(x);
    println();
}

/**
 * Print a floating-point number and then terminate the line. This method
 * behaves as though it invokes { @link #print(float)} and then
 * { @link #println()}.

```

```

*
* @throws IOException
*/
public void println(float x) throws IOException {
    print(x);
    println();
}

/**
 * Print a double-precision floating-point number and then terminate the
 * line. This method behaves as though it invokes { @link
 * #print(double)} and then { @link #println()}.
 *
 * @throws IOException
 */
public void println(double x) throws IOException{
    print(x);
    println();
}

/**
 * Print an array of characters and then terminate the line. This method
 * behaves as though it invokes { @link #print(char[])} and
 * then { @link #println()}.
 *
 * @throws IOException
 */
public void println(char x[]) throws IOException {
    print(x);
    println();
}

/**
 * Print a String and then terminate the line. This method behaves as
 * though it invokes { @link #print(String)} and then
 * { @link #println()}.
 *
 * @throws IOException
 */
public void println(String x) throws IOException {
    print(x);
    println();
}

/**
 * Print an Object and then terminate the line. This method behaves as
 * though it invokes { @link #print(Object)} and then
 * { @link #println()}.

```



```

*
* @throws IOException
*/
public void println(Object x) throws IOException {
    print(x);
    println();
}

/**
 * Clear the contents of the buffer. If the buffer has been already
 * been flushed then the clear operation shall throw an IOException
 * to signal the fact that some data has already been irrevocably
 * written to the client response stream.
 *
 * @throws IOException If an I/O error occurs
 */
public void clear() throws IOException {
    if (writer != null) {
        throw new IOException();
    } else {
        nextChar = 0;
        if (LIMIT_BUFFER && (cb.length > Constants.DEFAULT_TAG_BUFFER_SIZE)) {
            bufferSize = Constants.DEFAULT_TAG_BUFFER_SIZE;
            cb = new char[bufferSize];
        }
    }
}

/**
 * Clears the current contents of the buffer. Unlike clear(), this
 * mehtod will not throw an IOException if the buffer has already been
 * flushed. It merely clears the current content of the buffer and
 * returns.
 *
 * @throws IOException If an I/O error occurs
 */
public void clearBuffer() throws IOException {
    if (writer == null) {
        this.clear();
    }
}

/**
 * Close the stream, flushing it first. Once a stream has been closed,
 * further write() or flush() invocations will cause an IOException to be
 * thrown. Closing a previously-closed stream, however, has no effect.
 *
 * @throws IOException If an I/O error occurs

```

```

*/
public void close() throws IOException {
    if (writer != null) {
        writer.close();
    } else {
        closed = true;
    }
}

/**
 * @return the number of bytes unused in the buffer
 */
public int getRemaining() {
    return (writer == null) ? bufferSize-nextChar : 0;
}

/**
 * Return the value of this BodyJspWriter as a Reader.
 * Note: this is after evaluation!! There are no scriptlets,
 * etc in this stream.
 *
 * @return the value of this BodyJspWriter as a Reader
 */
public Reader getReader() {
    return (writer == null) ? new CharArrayReader (cb, 0, nextChar) : null;
}

/**
 * Return the value of the BodyJspWriter as a String.
 * Note: this is after evaluation!! There are no scriptlets,
 * etc in this stream.
 *
 * @return the value of the BodyJspWriter as a String
 */
public String getString() {
    return (writer == null) ? new String(cb, 0, nextChar) : null;
}

/**
 * Write the contents of this BodyJspWriter into a Writer.
 * Subclasses are likely to do interesting things with the
 * implementation so some things are extra efficient.
 *
 * @param out The writer into which to place the contents of this body
 * evaluation
 */
public void writeOut(Writer out) throws IOException {
    if (writer == null) {

```

```

        out.write(cb, 0, nextChar);
        // Flush not called as the writer passed could be a BodyContent and
        // it doesn't allow to flush.
    }
}

/**
 * Sets the writer to which all output is written.
 */
void setWriter(Writer writer) {
    this.writer = writer;
    closed = false;
    if (writer != null) {
        // According to the spec, the JspWriter returned by
        // JspContext.pushBody(java.io.Writer writer) must behave as
        // though it were unbuffered. This means that its getBufferSize()
        // must always return 0. The implementation of
        // JspWriter.getBufferSize() returns the value of JspWriter's
        // 'bufferSize' field, which is inherited by this class.
        // Therefore, we simply save the current 'bufferSize' (so we can
        // later restore it should this BodyContentImpl ever be reused by
        // a call to PageContext.pushBody()) before setting it to 0.
        if (bufferSize != 0) {
            bufferSizeSave = bufferSize;
            bufferSize = 0;
        }
    } else {
        bufferSize = bufferSizeSave;
        clearBody();
    }
}

private void ensureOpen() throws IOException {
    if (closed) throw new IOException("Stream closed");
}

/**
 * Reallocates buffer since the spec requires it to be unbounded.
 */
private void reAllocBuff(int len) {

    if (bufferSize + len <= cb.length) {
        bufferSize = cb.length;
        return;
    }

    if (len < cb.length) {
        len = cb.length;
    }
}

```

```

    }

    bufferSize = cb.length + len;
    char[] tmp = new char[bufferSize];

    System.arraycopy(cb, 0, tmp, 0, cb.length);
    cb = tmp;
    tmp = null;

}

}
<?xml version="1.0"?>
<!--
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contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<tag-plugins>
<tag-plugin>
    <tag-class>org.apache.taglibs.standard.tag.rt.core.IfTag</tag-class>
    <plugin-class>org.apache.jasper.tagplugins.jstl.core.If</plugin-class>
</tag-plugin>
<tag-plugin>
    <tag-class>org.apache.taglibs.standard.tag.common.core.ChooseTag</tag-class>
    <plugin-class>org.apache.jasper.tagplugins.jstl.core.Choose</plugin-class>
</tag-plugin>
<tag-plugin>
    <tag-class>org.apache.taglibs.standard.tag.rt.core.WhenTag</tag-class>
    <plugin-class>org.apache.jasper.tagplugins.jstl.core.When</plugin-class>
</tag-plugin>
<tag-plugin>
    <tag-class>org.apache.taglibs.standard.tag.common.core.OtherwiseTag</tag-class>
    <plugin-class>org.apache.jasper.tagplugins.jstl.core.Otherwise</plugin-class>
</tag-plugin>
<tag-plugin>

```

```

<tag-class>org.apache.taglibs.standard.tag.rt.core.ForEachTag</tag-class>
<plugin-class>org.apache.jasper.tagplugins.jstl.core.ForEach</plugin-class>
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<plugin-class>org.apache.jasper.tagplugins.jstl.core.Import</plugin-class>
</tag-plugin>
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1.333 jasperreports 4.5.0.wso2v1

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1.1

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1.353 javax.cache.wso2 4.2.0

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 */
package org.wso2.carbon.caching.impl;

import javax.cache.spi.AnnotationProvider;

/**
 * TODO: class description
 */
public class AnnotationProviderImpl implements AnnotationProvider {
    @Override
    public boolean isSupported() {
        return false; //TODO: return true when we start supporting annotations
    }
}
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 */
```

```

package org.wso2.carbon.caching.impl;

import javax.cache.Cache;
import javax.cache.CacheBuilder;
import javax.cache.CacheConfiguration;
import javax.cache.CacheLoader;
import javax.cache.CacheWriter;
import javax.cache.Caching;
import javax.cache.InvalidConfigurationException;
import javax.cache.OptionalFeature;
import javax.cache.event.CacheEntryListener;
import javax.cache.transaction.IsolationLevel;
import javax.cache.transaction.Mode;

/**
 * TODO: class description
 */
public class CacheBuilderImpl<K, V> implements CacheBuilder<K, V> {

    private CacheConfigurationImpl cacheConfiguration = new CacheConfigurationImpl();
    private String cacheName;
    private CarbonCacheManager cacheManager;
    private CacheImpl<K, V> cache;

    public CacheBuilderImpl(String cacheName, CarbonCacheManager cacheManager) {
        this.cacheName = cacheName;
        this.cacheManager = cacheManager;
    }

    @Override
    public Cache<K, V> build() {
        cache = (CacheImpl<K, V>) cacheManager.getExistingCache(cacheName);
        if (cache == null) {
            synchronized (cacheName.intern()) {
                if ((cache = (CacheImpl<K, V>) cacheManager.getExistingCache(cacheName)) == null) {
                    cache = new CacheImpl<K, V>(cacheName, cacheManager);
                    //TODO: set the tenant info
                    cache.setCacheConfiguration(cacheConfiguration);
                    cacheManager.addCache(cache);
                }
            }
        }
        return cache;
    }

    @Override
    public CacheBuilder<K, V> setCacheLoader(CacheLoader<K, ? extends V> cacheLoader) {
        cacheConfiguration.setCacheLoader(cacheLoader);
    }

```

```

    return this;
}

@Override
public CacheBuilder<K, V> setCacheWriter(CacheWriter<? super K, ? super V> cacheWriter) {
    cacheConfiguration.setCacheWriter(cacheWriter);
    return this;
}

@Override
public CacheBuilder<K, V> registerCacheEntryListener(CacheEntryListener<K, V> cacheEntryListener) {
    cache.registerCacheEntryListener(cacheEntryListener);
    return this;
}

@Override
public CacheBuilder<K, V> setStoreByValue(boolean storeByValue) {
    if (!storeByValue && !Caching.isSupported(OptionalFeature.STORE_BY_REFERENCE)) {
        throw new InvalidConfigurationException("storeByValue");
    }
    cacheConfiguration.setStoreByValue(storeByValue);
    return this;
}

@Override
public CacheBuilder<K, V> setTransactionEnabled(IsolationLevel isolationLevel, Mode mode) {
    if (!Caching.isSupported(OptionalFeature.TRANSACTIONS)) {
        throw new InvalidConfigurationException("transactionsEnabled");
    }
    cacheConfiguration.setTransactionMode(mode);
    cacheConfiguration.setIsolationLevel(isolationLevel);
    return this;
}

@Override
public CacheBuilder<K, V> setStatisticsEnabled(boolean enableStatistics) {
    cacheConfiguration.setStatisticsEnabled(enableStatistics);
    return this;
}

@Override
public CacheBuilder<K, V> setReadThrough(boolean readThrough) {
    cacheConfiguration.setReadThrough(readThrough);
    return this;
}

@Override
public CacheBuilder<K, V> setWriteThrough(boolean writeThrough) {

```

```

        cacheConfiguration.setWriteThrough(writeThrough);
        return this;
    }

    @Override
    public CacheBuilder<K, V> setExpiry(CacheConfiguration.ExpiryType type,
        CacheConfiguration.Duration duration) {
        if (type == null) {
            throw new NullPointerException("ExpiryType cannot be null");
        }
        if (duration == null) {
            throw new NullPointerException("Duration cannot be null");
        }
        cacheConfiguration.setExpiry(duration.getDurationAmount(), duration.getTimeUnit(), type);
        return this;
    }
}
}
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 */
package org.wso2.carbon.caching.impl;

import org.wso2.carbon.context.PrivilegedCarbonContext;

import javax.cache.Cache;
import javax.cache.CacheStatistics;
import javax.cache.CacheStatus;
import javax.cache.mbeans.CacheMBean;
import java.util.Date;

/**
 * TODO: class description
 */
public class CacheMBeanImpl implements CacheMBean {

```

```

private final Cache cache;
private String ownerTenantDomain;
private int ownerTenantId;

/**
 * Constructor
 *
 * @param cache          the cache
 * @param ownerTenantDomain ownerTenantDomain
 * @param ownerTenantId  ownerTenantId
 */
public CacheMXBeanImpl(Cache cache, String ownerTenantDomain, int ownerTenantId) {
    this.cache = cache;
    this.ownerTenantDomain = ownerTenantDomain;
    this.ownerTenantId = ownerTenantId;
}

@Override
public void clear() {
    try {
        PrivilegedCarbonContext.startTenantFlow();
        setTenantCredentialsInCarbonContext();
        getCacheStatistics().clear();
    } finally {
        PrivilegedCarbonContext.endTenantFlow();
    }
}

@Override
public Date getStartAccumulationDate() {
    try {
        PrivilegedCarbonContext.startTenantFlow();
        setTenantCredentialsInCarbonContext();
        return getCacheStatistics().getStartAccumulationDate();
    } finally {
        PrivilegedCarbonContext.endTenantFlow();
    }
}

@Override
public long getCacheHits() {
    return getCacheStatistics().getCacheHits();
}

@Override
public float getCacheHitPercentage() {
    return getCacheStatistics().getCacheHitPercentage();
}

```

```

}

@Override
public long getCacheMisses() {
    return getCacheStatistics().getCacheMisses();
}

@Override
public float getCacheMissPercentage() {
    return getCacheStatistics().getCacheMissPercentage();
}

@Override
public long getCacheGets() {
    return getCacheStatistics().getCacheGets();
}

@Override
public long getCachePuts() {
    return getCacheStatistics().getCachePuts();
}

@Override
public long getCacheRemovals() {
    return getCacheStatistics().getCacheRemovals();
}

@Override
public long getCacheEvictions() {
    return getCacheStatistics().getCacheEvictions();
}

@Override
public float getAverageGetMillis() {
    return getCacheStatistics().getAverageGetMillis();
}

@Override
public float getAveragePutMillis() {
    return getCacheStatistics().getAveragePutMillis();
}

@Override
public float getAverageRemoveMillis() {
    return getCacheStatistics().getAverageRemoveMillis();
}

private CacheStatistics getCacheStatistics() {

```

```

try {
    PrivilegedCarbonContext.startTenantFlow();
    setTenantCredentialsInCarbonContext();
    return cache.getStatistics();
} finally {
    PrivilegedCarbonContext.endTenantFlow();
}
}

@Override
public String getName() {
    try {
        PrivilegedCarbonContext.startTenantFlow();
        setTenantCredentialsInCarbonContext();
        return cache.getName();
    } finally {
        PrivilegedCarbonContext.endTenantFlow();
    }
}

@Override
public Status getStatus() {
    try {
        PrivilegedCarbonContext.startTenantFlow();
        setTenantCredentialsInCarbonContext();
        return cache.getStatus();
    } finally {
        PrivilegedCarbonContext.endTenantFlow();
    }
}

private void setTenantCredentialsInCarbonContext() {
    PrivilegedCarbonContext cc = PrivilegedCarbonContext.getThreadLocalCarbonContext();
    cc.setTenantId(ownerTenantId);
    cc.setTenantDomain(ownerTenantDomain);
}
}
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```

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*/
package org.wso2.carbon.caching.impl;

import javax.cache.CacheConfiguration;
import javax.cache.CacheLoader;
import javax.cache.CacheWriter;
import javax.cache.transaction.IsolationLevel;
import javax.cache.transaction.Mode;
import java.util.Arrays;
import java.util.concurrent.TimeUnit;

/**
 * TODO: class description
 */
public final class CacheConfigurationImpl implements CacheConfiguration {
    private static final boolean DEFAULT_READ_THROUGH = false;
    private static final boolean DEFAULT_WRITE_THROUGH = false;
    private static final boolean DEFAULT_STATISTICS_ENABLED = false;
    private static final Duration DEFAULT_TIME_TO_LIVE = Duration.ETERNAL;
    private static final boolean DEFAULT_STORE_BY_VALUE = true;
    private static final IsolationLevel DEFAULT_TRANSACTION_ISOLATION_LEVEL = IsolationLevel.NONE;
    private static final Mode DEFAULT_TRANSACTION_MODE = Mode.NONE;

    /**
     * read through
     */
    protected boolean readThrough = DEFAULT_READ_THROUGH;
    /**
     * write through
     */
    protected boolean writeThrough = DEFAULT_WRITE_THROUGH;
    /**
     * statistics enabled
     */
    protected boolean statisticsEnabled = DEFAULT_STATISTICS_ENABLED;
    /**
     * duration
     */
    protected Duration[] timeToLive;

    /**
     * store by value
     */

```



```

protected boolean storeByValue = DEFAULT_STORE_BY_VALUE;

/**
 * isolation level
 */
protected IsolationLevel isolationLevel = DEFAULT_TRANSACTION_ISOLATION_LEVEL;

/**
 * transaction mode
 */
protected Mode transactionMode = DEFAULT_TRANSACTION_MODE;

private CacheLoader cacheLoader;
private CacheWriter cacheWriter;

public CacheConfigurationImpl() {
}

public CacheConfigurationImpl(boolean readThrough, boolean writeThrough,
    boolean storeByValue, boolean statisticsEnabled,
    IsolationLevel isolationLevel, Mode transactionMode,
    Duration[] timeToLive) {
    this.readThrough = readThrough;
    this.writeThrough = writeThrough;
    this.storeByValue = storeByValue;
    this.statisticsEnabled = statisticsEnabled;
    this.isolationLevel = isolationLevel;
    this.transactionMode = transactionMode;
    this.timeToLive = Arrays.copyOf(timeToLive, timeToLive.length);
}

void setReadThrough(boolean readThrough) {
    this.readThrough = readThrough;
}

void setWriteThrough(boolean writeThrough) {
    this.writeThrough = writeThrough;
}

void setStoreByValue(boolean storeByValue) {
    this.storeByValue = storeByValue;
}

void setIsolationLevel(IsolationLevel isolationLevel) {
    this.isolationLevel = isolationLevel;
}

void setTransactionMode(Mode transactionMode) {

```

```

        this.transactionMode = transactionMode;
    }

    void setTimeToLive(Duration[] timeToLive) {
        this.timeToLive = timeToLive;
    }

    /**
     * {@inheritDoc}
     */
    @Override
    public boolean isReadThrough() {
        return readThrough;
    }

    /**
     * {@inheritDoc}
     */
    @Override
    public boolean isWriteThrough() {
        return writeThrough;
    }

    /**
     * {@inheritDoc}
     */
    @Override
    public boolean isStoreByValue() {
        return storeByValue;
    }

    /**
     * {@inheritDoc}
     */
    @Override
    public boolean isStatisticsEnabled() {
        return statisticsEnabled;
    }

    /**
     * {@inheritDoc}
     */
    @Override
    public void setStatisticsEnabled(boolean enableStatistics) {
        this.statisticsEnabled = enableStatistics;
    }

    @Override

```

```

public Duration getExpiry(ExpiryType type) {
    return timeToLive[type.ordinal()];
}

void setExpiry(long expiryTime, TimeUnit timeUnit, ExpiryType type) {
    if (timeToLive == null) {
        timeToLive = new Duration[2];
    }
    timeToLive[type.ordinal()] = new Duration(timeUnit, expiryTime);
}

/**
 * {@inheritDoc}
 */
@Override
public boolean isTransactionEnabled() {
    return isolationLevel != null && transactionMode != null;
}

@Override
public IsolationLevel getTransactionIsolationLevel() {
    return isolationLevel;
}

@Override
public Mode getTransactionMode() {
    return transactionMode;
}

@Override
public CacheLoader getCacheLoader() {
    return this.cacheLoader;
}

@Override
public CacheWriter getCacheWriter() {
    return this.cacheWriter;
}

void setCacheLoader(CacheLoader cacheLoader) {
    this.cacheLoader = cacheLoader;
}

void setCacheWriter(CacheWriter cacheWriter) {
    this.cacheWriter = cacheWriter;
}

@Override

```

```

public int hashCode() {
    int result = (readThrough ? 1 : 0);
    result = 31 * result + (writeThrough ? 1 : 0);
    result = 31 * result + (isStatisticsEnabled() ? 1 : 0);
    result = 31 * result + Arrays.hashCode(timeToLive);
    result = 31 * result + (storeByValue ? 1 : 0);
    result = 31 * result + (isolationLevel != null ? isolationLevel.hashCode() : 0);
    result = 31 * result + (transactionMode != null ? transactionMode.hashCode() : 0);
    return result;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (!(o instanceof CacheConfiguration)) return false;

    CacheConfiguration that = (CacheConfiguration) o;

    if (readThrough != that.isReadThrough()) return false;
    if (writeThrough != that.isWriteThrough()) return false;
    if (isStatisticsEnabled() != that.isStatisticsEnabled()) return false;
    for (ExpiryType ttyType : ExpiryType.values()) {
        if (getExpiry(ttyType) != that.getExpiry(ttyType)) return false;
    }
    return storeByValue == isStoreByValue() &&
        isolationLevel == that.getTransactionIsolationLevel() &&
        transactionMode == that.getTransactionMode();
}
}
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 */
package org.wso2.carbon.caching.impl;

```

```

import javax.cache.CacheStatistics;
import javax.cache.Status;
import java.util.Date;

/**
 * TODO: class description
 */
public class CacheStatisticsImpl implements CacheStatistics {
    private Status status;

    private long cacheHits;
    private long cacheMisses;
    private long cacheGets;
    private long cachePuts;
    private long cacheRemovals;
    private long cacheEvictions;

    @Override
    public void clear() {
        cacheGets = 0;
        cacheMisses = 0;
        cachePuts = 0;
        cacheHits = 0;
    }

    @Override
    public Date getStartAccumulationDate() {
        return null; //TODO
    }

    @Override
    public long getCacheHits() {
        return cacheHits;
    }

    @Override
    public float getCacheHitPercentage() {
        return 0; //TODO
    }

    @Override
    public long getCacheMisses() {
        return cacheMisses;
    }

    @Override
    public float getCacheMissPercentage() {

```

```

    return 0; //TODO
}

@Override
public long getCacheGets() {
    return cacheGets;
}

@Override
public long getCachePuts() {
    return cachePuts;
}

@Override
public long getCacheRemovals() {
    return 0; //TODO
}

@Override
public long getCacheEvictions() {
    return cacheEvictions;
}

@Override
public float getAverageGetMillis() {
    return 0; //TODO
}

@Override
public float getAveragePutMillis() {
    return 0; //TODO
}

@Override
public float getAverageRemoveMillis() {
    return 0; //TODO
}
}
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 */

```

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```

```
*/
```

```
package org.wso2.carbon.caching.impl;
```

```
import javax.cache.CacheManager;  
import javax.cache.CacheManagerFactory;  
import javax.cache.CachingShutdownException;  
import java.util.Map;  
import java.util.Random;  
import java.util.concurrent.ConcurrentHashMap;  
import java.util.concurrent.Executors;  
import java.util.concurrent.ScheduledExecutorService;  
import java.util.concurrent.ThreadFactory;  
import java.util.concurrent.TimeUnit;
```

```
/**
```

```
 * TODO: class description
```

```
*/
```

```
public class CacheManagerFactoryImpl implements CacheManagerFactory {
```

```
    private static CacheCleanupTask cacheCleanupTask = new CacheCleanupTask();
```

```
    private static Random randomGenerator = new Random();
```

```
    static {
```

```
        ThreadFactory threadFactory = new ThreadFactory() {
```

```
            @Override
```

```
            public Thread newThread(Runnable runnable) {
```

```
                Thread th = new Thread(runnable);
```

```
                th.setName("CacheExpirySchedulerThread-" + randomGenerator.nextInt(100));
```

```
                return th;
```

```
            }
```

```
        };
```

```
        ScheduledExecutorService cacheExpiryScheduler =
```

```
            Executors.newScheduledThreadPool(10, threadFactory);
```

```
        cacheExpiryScheduler.scheduleWithFixedDelay(cacheCleanupTask, 30, 30, TimeUnit.SECONDS);
```

```
    }
```

```
    static void addCacheForMonitoring(CacheImpl cache) {
```

```
        cacheCleanupTask.addCacheForMonitoring(cache);
```

```
    }
```

```
    void removeCacheFromMonitoring(CacheImpl cache) {
```

```
        cacheCleanupTask.removeCacheFromMonitoring(cache);
```

```

}

/**
 * Map<tenantDomain, Map<cacheManagerName,CacheManager> >
 */
private Map<String, Map<String, CacheManager>> globalCacheManagerMap =
    new ConcurrentHashMap<String, Map<String, CacheManager>>();

void switchToDistributedMode(){
    for (Map<String, CacheManager> cacheManagerMap : globalCacheManagerMap.values()) {
        for (CacheManager cacheManager : cacheManagerMap.values()) {
            ((CarbonCacheManager) cacheManager).switchToDistributedMode();
        }
    }
}

@Override
public CacheManager getCacheManager(String cacheManagerName) {
    String tenantDomain = Util.getTenantDomain();
    if(tenantDomain == null){
        throw new NullPointerException("Tenant domain has not been set in CarbonContext");
    }
    Map<String, CacheManager> cacheManagers = globalCacheManagerMap.get(tenantDomain);
    if (cacheManagers == null) {
        synchronized (tenantDomain.intern()) {
            if ((cacheManagers = globalCacheManagerMap.get(tenantDomain)) == null) {
                cacheManagers = new ConcurrentHashMap<String, CacheManager>();
                globalCacheManagerMap.put(tenantDomain, cacheManagers);
            }
        }
    }
    CacheManager cacheManager = cacheManagers.get(cacheManagerName);
    if (cacheManager == null) {
        synchronized ((tenantDomain + ".*.*" + cacheManagerName).intern()) {
            if ((cacheManager = cacheManagers.get(cacheManagerName)) == null) {
                cacheManager = new CarbonCacheManager(cacheManagerName, this);
                cacheManagers.put(cacheManagerName, cacheManager);
            }
        }
    }
    return cacheManager;
}

@Override
public CacheManager getCacheManager(ClassLoader classLoader, String name) {
    // Since we have a single CacheManager, we don't have to take the ClassLoader into consideration
    return getCacheManager(name);
}

```



```

@Override
public void close() throws CachingShutdownException {
    String tenantDomain = Util.getTenantDomain();
    synchronized (tenantDomain.intern()) {
        Map<String, CacheManager> cacheManagers = globalCacheManagerMap.get(tenantDomain);
        if (cacheManagers != null) {
            for (CacheManager cacheManager : cacheManagers.values()) {
                cacheManager.shutdown();
            }
            cacheManagers.clear();
        }
    }
}

```

```

@Override
public boolean close(ClassLoader classLoader) throws CachingShutdownException {
    close();
    return true;
}

```

```

@Override
public boolean close(ClassLoader classLoader, String name) throws CachingShutdownException {
    String tenantDomain = Util.getTenantDomain();
    Map<String, CacheManager> cacheManagers = globalCacheManagerMap.get(tenantDomain);
    CacheManager cacheManager;
    if (cacheManagers != null) {
        cacheManager = cacheManagers.get(name);
        cacheManager.shutdown();
        return true;
    }
    return false;
}

```

```

public void removeCacheManager(CarbonCacheManager cacheManager, String tenantDomain) {
    Map<String, CacheManager> cacheManagers = globalCacheManagerMap.get(tenantDomain);
    if (cacheManagers != null) {
        cacheManagers.remove(cacheManager.getName());
    }
}
}

```

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* under the License.
*/
package org.wso2.carbon.caching.impl;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.caching.impl.eviction.EvictionAlgorithm;
import org.wso2.carbon.caching.impl.eviction.EvictionUtil;
import org.wso2.carbon.context.CarbonContext;
import org.wso2.carbon.context.PrivilegedCarbonContext;
import org.wso2.carbon.utils.multitenancy.MultitenantConstants;
```

```
import javax.cache.Cache;
import javax.cache.CacheConfiguration;
import javax.cache.CacheLoader;
import javax.cache.CacheManager;
import javax.cache.CacheStatistics;
import javax.cache.Status;
import javax.cache.event.CacheEntryCreatedListener;
import javax.cache.event.CacheEntryEvent;
import javax.cache.event.CacheEntryExpiredListener;
import javax.cache.event.CacheEntryListener;
import javax.cache.event.CacheEntryReadListener;
import javax.cache.event.CacheEntryRemovedListener;
import javax.cache.event.CacheEntryUpdatedListener;
import javax.cache.mbeans.CacheMXBean;
import javax.cache.transaction.IsolationLevel;
import javax.cache.transaction.Mode;
import javax.management.InstanceNotFoundException;
import javax.management.MBeanRegistrationException;
import javax.management.MBeanServer;
import javax.management.MBeanServerFactory;
import javax.management.ObjectName;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Date;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
```

```

import java.util.Map;
import java.util.Set;
import java.util.concurrent.Callable;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.Future;
import java.util.concurrent.FutureTask;
import java.util.concurrent.TimeUnit;

/**
 * TODO: class description
 * <p/>
 * TODO: Cache statistics
 */
@SuppressWarnings("unchecked")
public class CacheImpl<K, V> implements Cache<K, V> {
    private static final Log log = LogFactory.getLog(CacheImpl.class);
    private static final int CACHE_LOADER_THREADS = 2;
    private static final long DEFAULT_CACHE_EXPIRY_MINS = 15;
    private static final long DEFAULT_CACHE_EXPIRY_MILLIS = DEFAULT_CACHE_EXPIRY_MINS * 60 *
1000;

    private String cacheName;
    private CacheManager cacheManager;
    private boolean isLocalCache;
    private Map<K, CacheEntry<K, V>> distributedCache;
    private final Map<K, CacheEntry<K, V>> localCache = new ConcurrentHashMap<K, CacheEntry<K, V>>();
    private CacheConfiguration<K, V> cacheConfiguration;

    private List<CacheEntryListener> cacheEntryListeners = new ArrayList<CacheEntryListener>();
    private Status status;
    private CacheStatisticsImpl cacheStatistics;
    private ObjectName cacheMxBeanObjName;
    private final ExecutorService cacheLoadExecService =
Executors.newFixedThreadPool(CACHE_LOADER_THREADS);

    private String ownerTenantDomain;
    private int ownerTenantId;
    private long lastAccessed = System.currentTimeMillis();

    private long capacity = CachingConstants.DEFAULT_CACHE_CAPACITY;
    private EvictionAlgorithm evictionAlgorithm = CachingConstants.DEFAULT_EVICTION_ALGORITHM;

    public CacheImpl(String cacheName, CacheManager cacheManager) {
        CarbonContext carbonContext = CarbonContext.getThreadLocalCarbonContext();
        if (carbonContext == null) {
            throw new IllegalStateException("CarbonContext cannot be null");

```

```

    }
    ownerTenantDomain = carbonContext.getTenantDomain();
    if (ownerTenantDomain == null) {
        throw new IllegalStateException("Tenant domain cannot be " + ownerTenantDomain);
    }
    ownerTenantId = carbonContext.getTenantId();
    if (ownerTenantId == MultitenantConstants.INVALID_TENANT_ID) {
        throw new IllegalStateException("Tenant ID cannot be " + ownerTenantId);
    }
    this.cacheName = cacheName;
    this.cacheManager = cacheManager;
    DistributedMapProvider distributedMapProvider =
        DataHolder.getInstance().getDistributedMapProvider();
    if (isLocalCache(cacheName, distributedMapProvider)) {
        if (log.isDebugEnabled()) {
            log.debug("Using local cache");
        }
        isLocalCache = true;
    } else {
        if (log.isDebugEnabled()) {
            log.debug("Using Hazelcast based distributed cache");
        }
        distributedCache = distributedMapProvider.getMap(getMapName(cacheName, cacheManager),
            new MapEntryListenerImpl());
    }
    cacheStatistics = new CacheStatisticsImpl();
    registerMBean();
    CacheManagerFactoryImpl.addCacheForMonitoring(this);
    status = Status.STARTED;
}

private boolean isLocalCache(String cacheName, DistributedMapProvider distributedMapProvider) {
    return cacheName.startsWith(CachingConstants.LOCAL_CACHE_PREFIX) || distributedMapProvider == null;
}

void switchToDistributedMode() {
    DistributedMapProvider distributedMapProvider =
        DataHolder.getInstance().getDistributedMapProvider();
    if (isLocalCache(cacheName, distributedMapProvider)) {
        return;
    }
    distributedCache = distributedMapProvider.getMap(getMapName(cacheName, cacheManager),
        new MapEntryListenerImpl());
    isLocalCache = false;

    // copy cache entries from localCache to distributed cache
    for (Map.Entry<K, CacheEntry<K, V>> entry : localCache.entrySet()) {
        distributedCache.put(entry.getKey(), entry.getValue());
    }
}

```

```

    }
}

private String getMapName(String cacheName, CacheManager cacheManager) {
    return "$cache.$domain[" + ownerTenantDomain + "]" +
        cacheManager.getName() + "#" + cacheName;
}

private MBeanServer getMBeanServer() {
    MBeanServer mserver;
    if (MBeanServerFactory.findMBeanServer(null).size() > 0) {
        mserver = MBeanServerFactory.findMBeanServer(null).get(0);
    } else {
        mserver = MBeanServerFactory.createMBeanServer();
    }
    return mserver;
}

private void registerMBean() {
    String serverPackage = "org.wso2.carbon";
    try {
        String objectName = serverPackage + ":type=Cache,tenant=" + ownerTenantDomain +
            ",manager=" + cacheManager.getName() + ",name=" + cacheName;
        MBeanServer mserver = getMBeanServer();
        cacheMXBeanObjName = new ObjectName(objectName);
        Set set = mserver.queryNames(new ObjectName(objectName), null);
        if (set.isEmpty()) {
            CacheMXBeanImpl cacheMXBean =
                new CacheMXBeanImpl(this, ownerTenantDomain, ownerTenantId);
            mserver.registerMBean(cacheMXBean, cacheMXBeanObjName);
        }
    } catch (Exception e) {
        String msg = "Could not register CacheMXBeanImpl MBean";
        log.error(msg, e);
        throw new RuntimeException(msg, e);
    }
}

@Override
@SuppressWarnings("unchecked")
public V get(K key) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    CacheEntry entry = localCache.get(key);
    V value = null;
    if (entry != null) {
        value = (V) entry.getValue();
    }
}

```

```

        if (!isLocalCache) {
            distributedCache.put(key, entry); // Need to put this back so that the accessed timestamp change is visible
throughout the cluster
        }
        notifyCacheEntryRead(key, value);
    } else if (!isLocalCache) { // Try reading it from the distributed cache
        entry = distributedCache.get(key);
        if (entry != null) {
            localCache.put(key, entry);
            value = (V) entry.getValue();
            distributedCache.put(key, entry); // Need to put this back so that the accessed timestamp change is visible
throughout the cluster
            notifyCacheEntryRead(key, value);
        }
    }
    return value;
}

```

@Override

```

public Map<K, V> getAll(Set<? extends K> keys) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    syncCaches();
    Map<K, CacheEntry<K, V>> source = localCache;
    Map<K, V> destination = new HashMap<K, V>(keys.size());
    for (K key : keys) {
        destination.put(key, source.get(key).getValue());
    }
    return destination;
}

```

```

public void syncCaches() {
    if (!isLocalCache) {
        for (Map.Entry<K, CacheEntry<K, V>> entry : distributedCache.entrySet()) {
            K key = entry.getKey();
            CacheEntry<K, V> value = entry.getValue();
            if (!localCache.containsKey(key) ||
                value.getLastModified() > localCache.get(key).getLastModified()) {
                localCache.put(key, value);
            }
        }
    }
}

```

```

public Collection<CacheEntry<K, V>> getAll() {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
}

```

```

    syncCaches();
    return Collections.unmodifiableCollection(localCache.values());
}

@Override
public boolean containsKey(K key) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    boolean containsKey = localCache.containsKey(key);
    if(!containsKey && !isLocalCache){
        containsKey = distributedCache.containsKey(key);
        if(containsKey){
            localCache.put(key, distributedCache.get(key));
        }
    }
    return containsKey;
}

@Override
public Future<V> load(K key) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    CacheLoader<K, ? extends V> cacheLoader = cacheConfiguration.getCacheLoader();
    if (cacheLoader == null) {
        return null;
    }
    if (containsKey(key)) {
        return null;
    }
    CarbonContext carbonContext = CarbonContext.getThreadLocalCarbonContext();
    FutureTask<V> task = new FutureTask<V>(new CacheLoaderLoadCallable<K, V>(this, cacheLoader, key,
                                                                    carbonContext.getTenantDomain(),
                                                                    carbonContext.getTenantId()));

    cacheLoadExecService.submit(task);
    return task;
}

private void checkStatusStarted() {
    if (!status.equals(Status.STARTED)) {
        throw new IllegalStateException("The cache status is not STARTED");
    }
}

@Override
public Future<Map<K, ? extends V>> loadAll(final Set<? extends K> keys) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);

```

```

checkStatusStarted();
lastAccessed = System.currentTimeMillis();
if (keys == null) {
    throw new NullPointerException("keys");
}
CacheLoader<K, ? extends V> cacheLoader = cacheConfiguration.getCacheLoader();
if (cacheLoader == null) {
    return null;
}
if (keys.contains(null)) {
    throw new NullPointerException("key");
}
CarbonContext carbonContext = CarbonContext.getThreadLocalCarbonContext();
Callable<Map<K, ? extends V>> callable =
    new CacheLoaderLoadAllCallable<K, V>(this, cacheLoader, keys,
        carbonContext.getTenantDomain(),
        carbonContext.getTenantId());
FutureTask<Map<K, ? extends V>> task = new FutureTask<Map<K, ? extends V>>(callable);
cacheLoadExecService.submit(task);
return task;
}

```

```

@Override
public CacheStatistics getStatistics() {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    return cacheStatistics;
}

```

```

private void internalPut(K key, V value) {
    this.localCache.put(key, new CacheEntry(key, value));
    if (!isLocalCache) {
        this.distributedCache.put(key, new CacheEntry(key, value));
    }
}

```

```

@Override
public void put(K key, V value) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    if (localCache.size() >= capacity) {
        EvictionUtil.evict(this, evictionAlgorithm);
    }
    CacheEntry entry = localCache.get(key);
    V oldValue = entry != null ? (V) entry.getValue() : null;
    if (oldValue == null) {

```



```

        internalPut(key, value);
        notifyCacheEntryCreated(key, value);
    } else {
        entry.setValue(value);
        internalPut(key, value);
        notifyCacheEntryUpdated(key, value);
    }
}

private void notifyCacheEntryCreated(K key, V value) {
    CacheEntryEvent event = createCacheEntryEvent(key, value);
    for (CacheEntryListener cacheEntryListener : cacheEntryListeners) {
        if (cacheEntryListener instanceof CacheEntryCreatedListener) {
            ((CacheEntryCreatedListener) cacheEntryListener).entryCreated(event);
        }
    }
}

private void notifyCacheEntryUpdated(K key, V value) {
    CacheEntryEvent event = createCacheEntryEvent(key, value);
    for (CacheEntryListener cacheEntryListener : cacheEntryListeners) {
        if (cacheEntryListener instanceof CacheEntryUpdatedListener) {
            ((CacheEntryUpdatedListener) cacheEntryListener).entryUpdated(event);
        }
    }
}

private void notifyCacheEntryRead(K key, V value) {
    CacheEntryEvent event = createCacheEntryEvent(key, value);
    for (CacheEntryListener cacheEntryListener : cacheEntryListeners) {
        if (cacheEntryListener instanceof CacheEntryReadListener) {
            ((CacheEntryReadListener) cacheEntryListener).entryRead(event);
        }
    }
}

private void notifyCacheEntryRemoved(K key, V value) {
    CacheEntryEvent event = createCacheEntryEvent(key, value);
    for (CacheEntryListener cacheEntryListener : cacheEntryListeners) {
        if (cacheEntryListener instanceof CacheEntryRemovedListener) {
            ((CacheEntryRemovedListener) cacheEntryListener).entryRemoved(event);
        }
    }
}

private void notifyCacheEntryExpired(K key, V value) {
    CacheEntryEvent event = createCacheEntryEvent(key, value);
    for (CacheEntryListener cacheEntryListener : cacheEntryListeners) {

```

```

        if (cacheEntryListener instanceof CacheEntryExpiredListener) {
            ((CacheEntryExpiredListener) cacheEntryListener).entryExpired(event);
        }
    }
}

```

```

private CacheEntryEvent createCacheEntryEvent(K key, V value) {
    CacheEntryEventImpl event = new CacheEntryEventImpl(this);
    event.setKey(key);
    event.setValue(value);
    return event;
}

```

```

@Override
public V getAndPut(K key, V value) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    if (localCache.size() >= capacity) {
        EvictionUtil.evict(this, evictionAlgorithm);
    }
    V oldValue = localCache.get(key).getValue();
    put(key, value);
    return oldValue;
}

```

```

@Override
public void putAll(Map<? extends K, ? extends V> map) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    for (Map.Entry<? extends K, ? extends V> entry : map.entrySet()) {
        K key = entry.getKey();
        boolean entryExists = false;
        if (localCache.containsKey(key)) {
            entryExists = true;
        }
        V value = entry.getValue();
        internalPut(key, value);
        if (localCache.size() >= capacity) {
            EvictionUtil.evict(this, evictionAlgorithm);
        }
        if (entryExists) {
            notifyCacheEntryUpdated(key, value);
        } else {
            notifyCacheEntryCreated(key, value);
        }
    }
}

```

```

}

@Override
public boolean putIfAbsent(K key, V value) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    if (localCache.size() >= capacity) {
        EvictionUtil.evict(this, evictionAlgorithm);
    }
    if (!localCache.containsKey(key)) {
        internalPut(key, value);
        notifyCacheEntryCreated(key, value);
        return true;
    }
    return false;
}

```

```

@Override
public boolean remove(Object key) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    CacheEntry entry = localCache.remove((K) key);
    if (!isLocalCache) {
        distributedCache.remove(key);
    }
    boolean removed = entry != null;
    if (removed) {
        notifyCacheEntryRemoved((K) key, (V) entry.getValue());
    }
    return true;
}

```

```

@Override
public boolean remove(K key, V oldValue) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    CacheEntry<K, V> cacheEntry = localCache.remove(key);
    distributedCache.remove(key);
    notifyCacheEntryRemoved(key, oldValue);
    return cacheEntry != null;
}

```

```

@Override
public V getAndRemove(K key) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);

```

```

checkStatusStarted();
lastAccessed = System.currentTimeMillis();
CacheEntry entry = localCache.remove(key);
if (!isLocalCache) {
    distributedCache.remove(key);
}
if (entry != null) {
    V value = (V) entry.getValue();
    notifyCacheEntryRemoved(key, value);
    return value;
}
return null;
}

```

@Override

```

public boolean replace(K key, V oldValue, V newValue) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    Map<K, CacheEntry<K, V>> map = localCache;
    if (map.containsKey(key) && map.get(key).equals(new CacheEntry(key, oldValue))) {
        internalPut(key, newValue);
        notifyCacheEntryUpdated(key, newValue);
        return true;
    }
    return false;
}

```

@Override

```

public boolean replace(K key, V value) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    Map<K, CacheEntry<K, V>> map = localCache;
    if (map.containsKey(key)) {
        internalPut(key, value);
        notifyCacheEntryUpdated(key, value);
        return true;
    }
    return false;
}

```

@Override

```

public V getAndReplace(K key, V value) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    Map<K, CacheEntry<K, V>> map = localCache;

```

```

CacheEntry<K, V> oldValue = map.get(key);
if (oldValue != null) {
    internalPut(key, value);
    notifyCacheEntryUpdated(key, value);
    return oldValue.getValue();
}
return null;
}

@Override
public void removeAll(Set<? extends K> keys) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    Map<K, CacheEntry<K, V>> map = localCache;
    for (K key : keys) {
        CacheEntry entry = map.remove(key);
        if(!isLocalCache){
            distributedCache.remove(key);
        }
        notifyCacheEntryRemoved(key, (V) entry.getValue());
    }
}

@Override
public void removeAll() {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    Map<K, CacheEntry<K, V>> map = localCache;
    for (Map.Entry<K, CacheEntry<K, V>> entry : map.entrySet()) {
        notifyCacheEntryRemoved(entry.getKey(), entry.getValue().getValue());
    }
    map.clear();
    if(!isLocalCache){
        distributedCache.clear();
    }
    //TODO: Notify value removed
}

@Override
public CacheConfiguration<K, V> getConfiguration() {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    if (cacheConfiguration == null) {
        cacheConfiguration = getDefaultCacheConfiguration();
    }
    return cacheConfiguration;
}

```

```

private CacheConfiguration<K, V> getDefaultCacheConfiguration() {
    return new CacheConfigurationImpl(true, true, true, true, IsolationLevel.NONE, Mode.NONE,
        new CacheConfiguration.Duration[]{new
CacheConfiguration.Duration(TimeUnit.MINUTES,
                                DEFAULT_CACHE_EXPIRY_MINS),
                                new CacheConfiguration.Duration(TimeUnit.MINUTES,
                                DEFAULT_CACHE_EXPIRY_MINS)});
}

@Override
public boolean registerCacheEntryListener(CacheEntryListener<? super K, ? super V> cacheEntryListener) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    lastAccessed = System.currentTimeMillis();
    return cacheEntryListeners.add(cacheEntryListener);
}

@Override
public boolean unregisterCacheEntryListener(CacheEntryListener<?, ?> cacheEntryListener) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    lastAccessed = System.currentTimeMillis();
    return cacheEntryListeners.remove(cacheEntryListener);
}

@Override
public Object invokeEntryProcessor(K key, EntryProcessor<K, V> entryProcessor) {
//    V v = getMap().get(key);
    lastAccessed = System.currentTimeMillis();
    return entryProcessor.process(new MutableEntry<K, V>() {
        @Override
        public boolean exists() {
            return false; //TODO
        }

        @Override
        public void remove() {
            //TODO
        }

        @Override
        public void setValue(V value) {
            //TODO
        }

        @Override
        public K getKey() {
            return null; //TODO
        }
    });
}

```

```

    @Override
    public V getValue() {
        return null; //TODO
    }
}); //TODO change body of implemented methods use File | Settings | File Templates.
}

@Override
public String getName() {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    return this.cacheName;
}

@Override
public CacheManager getCacheManager() {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    lastAccessed = System.currentTimeMillis();
    return cacheManager;
}

@Override
public <T> T unwrap(Class<T> cls) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    lastAccessed = System.currentTimeMillis();
    if (cls.isAssignableFrom(this.getClass())) {
        return cls.cast(this);
    }

    throw new IllegalArgumentException("Unwrapping to " + cls +
        " is not a supported by this implementation");
}

@Override
public Iterator<K> keys() {
    return localCache.keySet().iterator();
}

@Override
public Iterator<Entry<K, V>> iterator() {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    lastAccessed = System.currentTimeMillis();
    return new CacheEntryIterator<K, V>(localCache.values().iterator());
}

@Override
public CacheMBean getMBean() {
    throw new UnsupportedOperationException("getMBean is an ambiguous method which is not supported");
}

```

```

}

@Override
public void start() {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    lastAccessed = System.currentTimeMillis();
    if (status == Status.STARTED) {
        throw new IllegalStateException();
    }
    status = Status.STARTED;
}

```

```

@Override
public void stop() {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    lastAccessed = System.currentTimeMillis();
    localCache.clear();

    if (!isLocalCache) {
        distributedCache.clear();
    }

    // Unregister the cacheMxBean MBean
    MBeanServer mserver = getMBeanServer();
    try {
        mserver.unregisterMBean(cacheMxBeanObjName);
    } catch (InstanceNotFoundException ignored) {
    } catch (MBeanRegistrationException e) {
        log.error("Cannot unregister CacheMxBean", e);
    }
    status = Status.STOPPED;
    cacheManager.removeCache(cacheName);
}

```

```

@Override
public Status getStatus() {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    return status;
}

```

```

public void expire(K key) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    CacheEntry entry = localCache.remove(key);
    if (!isLocalCache) {
        try {
            distributedCache.remove(key);
        } catch (Exception e) {

```



```

        log.warn("Exception occurred while expiring item from distributed cache. " + e.getMessage());
    }
}
if (isIdle()) {
    cacheManager.removeCache(cacheName);
}
if (entry != null) {
    notifyCacheEntryExpired(key, (V) entry.getValue());
}
}

public void evict(K key) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    checkStatusStarted();
    localCache.remove(key);
    if (!isLocalCache) {
        try {
            distributedCache.remove(key);
        } catch (Exception e) {
            log.warn("Exception occurred while evicting item from distributed cache. " + e.getMessage());
        }
    }
}

public void setCacheConfiguration(CacheConfigurationImpl cacheConfiguration) {
    Util.checkAccess(ownerTenantDomain, ownerTenantId);
    this.cacheConfiguration = cacheConfiguration;
}

public void setCapacity(long capacity) {
    this.capacity = capacity;
}

public void setEvictionAlgorithm(EvictionAlgorithm evictionAlgorithm) {
    this.evictionAlgorithm = evictionAlgorithm;
}

private static final class CacheEntryIterator<K, V> implements Iterator<Entry<K, V>> {
    private Iterator<CacheEntry<K, V>> iterator;

    public CacheEntryIterator(Iterator<CacheEntry<K, V>> iterator) {
        this.iterator = iterator;
    }

    /**
     * {@inheritDoc}
     */
    @Override

```

```

public boolean hasNext() {
    return iterator.hasNext();
}

/**
 * {@inheritDoc}
 */
@Override
public Entry<K, V> next() {
    return iterator.next();
}

/**
 * {@inheritDoc}
 */
@Override
public void remove() {
    iterator.remove();
}
}

private boolean isIdle() {
    long timeDiff = System.currentTimeMillis() - lastAccessed;
    return localCache.isEmpty() && (timeDiff >= CachingConstants.MAX_CACHE_IDLE_TIME_MILLIS);
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;

    CacheImpl cache = (CacheImpl) o;

    if (ownerTenantId != cache.ownerTenantId) return false;
    if (cacheManager != null ? !cacheManager.equals(cache.cacheManager) : cache.cacheManager != null)
        return false;
    if (cacheName != null ? !cacheName.equals(cache.cacheName) : cache.cacheName != null)
        return false;
    if (ownerTenantDomain != null ? !ownerTenantDomain.equals(cache.ownerTenantDomain) :
cache.ownerTenantDomain != null)
        return false;
    return true;
}

@Override
public int hashCode() {
    int result = cacheName != null ? cacheName.hashCode() : 0;
    result = 31 * result + (cacheManager != null ? cacheManager.hashCode() : 0);
}

```

```

    result = 31 * result + (ownerTenantDomain != null ? ownerTenantDomain.hashCode() : 0);
    result = 31 * result + ownerTenantId;
    return result;
}

@SuppressWarnings("unchecked")
void runCacheExpiry() {
    CacheConfiguration cacheConfiguration = getConfiguration();

    CacheConfiguration.Duration modifiedExpiry =
        cacheConfiguration.getExpiry(CacheConfiguration.ExpiryType.MODIFIED);
    long modifiedExpiryDuration =
        modifiedExpiry == null ?
        DEFAULT_CACHE_EXPIRY_MILLIS :
        modifiedExpiry.getTimeUnit().toMillis(modifiedExpiry.getDurationAmount());

    CacheConfiguration.Duration accessedExpiry =
        cacheConfiguration.getExpiry(CacheConfiguration.ExpiryType.ACCESED);
    long accessedExpiryDuration =
        accessedExpiry == null ?
        DEFAULT_CACHE_EXPIRY_MILLIS :
        accessedExpiry.getTimeUnit().toMillis(accessedExpiry.getDurationAmount());

    Collection<CacheEntry<K, V>> cacheEntries = getAll();
    for (CacheEntry<K, V> entry : cacheEntries) { // All Cache entries in a Cache
        long lastAccessed = entry.getLastAccessed();
        long lastModified = entry.getLastModified();
        long now = System.currentTimeMillis();

        if (log.isDebugEnabled()) {
            log.debug("Cache:" + cacheName + ", entry:" + entry.getKey() + ", lastAccessed: " +
                new Date(lastAccessed) + ", lastModified: " + new Date(lastModified));
        }
        if (now - lastAccessed >= accessedExpiryDuration ||
            now - lastModified >= modifiedExpiryDuration) {
            expire(entry.getKey());
            if (log.isDebugEnabled()) {
                log.debug("Expired: Cache:" + cacheName + ", entry:" + entry.getKey());
            }
        }
    }
}

/**
 * Callable used for cache loader.
 *
 * @param <K> the type of the key
 * @param <V> the type of the value

```

```

*/
private static class CacheLoaderLoadCallable<K, V> implements Callable<V> {
    private final CacheImpl<K, V> cache;
    private final CacheLoader<K, ? extends V> cacheLoader;
    private final K key;
    private final String tenantDomain;
    private final int tenantId;

    CacheLoaderLoadCallable(CacheImpl<K, V> cache, CacheLoader<K, ? extends V> cacheLoader, K key,
        String tenantDomain, int tenantId) {
        this.cache = cache;
        this.cacheLoader = cacheLoader;
        this.key = key;
        this.tenantDomain = tenantDomain;
        this.tenantId = tenantId;
    }

    @Override
    public V call() throws Exception {
        Entry<K, ? extends V> entry;
        try {
            PrivilegedCarbonContext carbonContext = PrivilegedCarbonContext.getThreadLocalCarbonContext();
            carbonContext.setTenantDomain(tenantDomain);
            carbonContext.setTenantId(tenantId);
            entry = cacheLoader.load(key);
            cache.put(entry.getKey(), entry.getValue());
        } catch (Exception e) {
            log.error("Could not load cache item with key " + key + " into cache " +
                cache.getName() + " owned by tenant ", e);
            throw e;
        }
        return entry.getValue();
    }
}

/**
 * Callable used for cache loader.
 *
 * @param <K> the type of the key
 * @param <V> the type of the value
 */
private static class CacheLoaderLoadAllCallable<K, V> implements Callable<Map<K, ? extends V>> {
    private final CacheImpl<K, V> cache;
    private final CacheLoader<K, ? extends V> cacheLoader;
    private final Collection<? extends K> keys;
    private final String tenantDomain;
    private final int tenantId;

```

```

CacheLoaderLoadAllCallable(CacheImpl<K, V> cache,
    CacheLoader<K, ? extends V> cacheLoader,
    Collection<? extends K> keys,
    String tenantDomain, int tenantId) {
    this.cache = cache;
    this.cacheLoader = cacheLoader;
    this.keys = keys;
    this.tenantDomain = tenantDomain;
    this.tenantId = tenantId;
}

@Override
public Map<K, ? extends V> call() throws Exception {
    Map<K, ? extends V> value;
    try {
        PrivilegedCarbonContext carbonContext = PrivilegedCarbonContext.getThreadLocalCarbonContext();
        carbonContext.setTenantDomain(tenantDomain);
        carbonContext.setTenantId(tenantId);
        ArrayList<K> keysNotInStore = new ArrayList<K>();
        for (K key : keys) {
            if (!cache.containsKey(key)) {
                keysNotInStore.add(key);
            }
        }
        value = cacheLoader.loadAll(keysNotInStore);
        cache.putAll(value);
    } catch (Exception e) {
        log.error("Could not load all cache items into cache " + cache.getName() + " owned by tenant ", e);
        throw e;
    }
    return value;
}
}

```

```

private class MapEntryListenerImpl implements MapEntryListener{

```

```

@Override
public <X> void entryAdded(X key) {
    CacheEntry<K, V> value = distributedCache.get(key);
    if (value != null) {
        localCache.put((K)key, value);
    }
}

```

```

@Override
public <X> void entryRemoved(X key) {
    localCache.remove((K)key);
}

```

```

@Override
public <X> void entryUpdated(X key) {
    CacheEntry<K, V> value = distributedCache.get(key);
    if (value != null) {
        localCache.put((K)key, value);
    }
}
}
}
}
/*
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 * KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations
 * under the License.
 */
package org.wso2.carbon.caching.impl;

import javax.cache.CacheManagerFactory;
import javax.cache.OptionalFeature;
import javax.cache.spi.CachingProvider;

/**
 * TODO: class description
 */
public class CachingProviderImpl implements CachingProvider {
    private CacheManagerFactoryImpl cacheManagerFactory;

    public CachingProviderImpl() {
        cacheManagerFactory = new CacheManagerFactoryImpl();
    }

    void switchToDistributedMode(){
        cacheManagerFactory.switchToDistributedMode();
    }
}

@Override

```

```

public CacheManagerFactory getCacheManagerFactory() {
    return cacheManagerFactory;
}

@Override
public boolean isSupported(OptionalFeature optionalFeature) {
    return true; //TODO: impl
}
}
/*
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 * software distributed under the License is distributed on an
 * "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 * KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations
 * under the License.
 */
package org.wso2.carbon.caching.impl;

import javax.cache.Cache;
import javax.cache.event.CacheEntryEvent;

/**
 * TODO: class description
 */
public class CacheEntryEventImpl extends CacheEntryEvent {

    private Object key;
    private Object value;

    /**
     * Constructs a cache entry event from a given cache as source
     *
     * @param source the cache that originated the event
     */
    public CacheEntryEventImpl(Cache source) {
        super(source);
    }
}

```

```

public void setKey(Object key) {
    this.key = key;
}

public void setValue(Object value) {
    this.value = value;
}

@Override
public Object getKey() {
    return key;
}

@Override
public Object getValue() {
    return value;
}
}

```

1.354 javax.el 2.2.0.v201108011116

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1.359 JAX-RS provider for JSON content type

1.9.13

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*/

package com.sun.xml.txw2;

/**
 * Signals an incorrect use of TXW annotations.
 *
 * @author Kohsuke Kawaguchi
 */
public class IllegalAnnotationException extends TxwException {
    public IllegalAnnotationException(String message) {
        super(message);
    }

    public IllegalAnnotationException(Throwable cause) {
        super(cause);
    }

    public IllegalAnnotationException(String message, Throwable cause) {
        super(message, cause);
    }

    private static final long serialVersionUID = 1L;
}
/*
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- */

```
package com.sun.xml.txw2;
```

```
/**
```

```
* Signals incorrect method signatures on {@link TypedXmlWriter}-derived interfaces.
```

```
*
```

```
* @author Kohsuke Kawaguchi
```

```
*/
```

```
public class IllegalSignatureException extends TxwException {
```

```
    public IllegalSignatureException(String message) {
```

```
        super(message);
```

```
    }
```

```
    public IllegalSignatureException(String message, Throwable cause) {
```

```
        super(message, cause);
```

```
    }
```

```
    public IllegalSignatureException(Throwable cause) {
```

```
        super(cause);
```

```
    }
```



```

    private static final long serialVersionUID = 1L;
}
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 */

package com.sun.xml.bind.util;

import javax.xml.bind.helpers.ValidationEventLocatorImpl;

import com.sun.xml.bind.ValidationEventLocatorEx;

```

```

/**
 *
 *
 * @author
 *   Kohsuke Kawaguchi (kohsuke.kawaguchi@sun.com)
 */
public class ValidationEventLocatorExImpl
    extends ValidationEventLocatorImpl implements ValidationEventLocatorEx {

    private final String fieldName;

    public ValidationEventLocatorExImpl( Object target, String fieldName ) {
        super(target);
        this.fieldName = fieldName;
    }

    public String getFieldName() {
        return fieldName;
    }

    /**
     * Returns a nice string representation for better debug experience.
     */
    public String toString() {
        StringBuffer buf = new StringBuffer();
        buf.append("[url=");
        buf.append(getURL());
        buf.append(",line=");
        buf.append(getLineNumber());
        buf.append(",column=");
        buf.append(getColumnNumber());
        buf.append(",node=");
        buf.append(getNode());
        buf.append(",object=");
        buf.append(getObject());
        buf.append(",field=");
        buf.append(getFieldName());
        buf.append("]");

        return buf.toString();
    }
}
/**
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 */

// AttributesImpl.java - default implementation of Attributes.

// <http://www.saxproject.org>

// Written by David Megginson

// NO WARRANTY! This class is in the public domain.

package com.sun.xml.bind.util;

import org.xml.sax.Attributes;

/**

* Default implementation of the Attributes interface.

*

* <blockquote>

```

* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p>This class provides a default implementation of the SAX2
* { @link org.xml.sax.Attributes Attributes } interface, with the
* addition of manipulators so that the list can be modified or
* reused.</p>
*
* <p>There are two typical uses of this class:</p>
*
* <ol>
* <li>to take a persistent snapshot of an Attributes object
* in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or</li>
* <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
* </ol>
*
* <p>This class replaces the now-deprecated SAX1 { @link
* org.xml.sax.helpers.AttributeListImpl AttributeListImpl }
* class; in addition to supporting the updated Attributes
* interface rather than the deprecated { @link org.xml.sax.AttributeList
* AttributeList } interface, it also includes a much more efficient
* implementation using a single array rather than a set of Vectors.</p>
*
* @since JAXB1.0
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/

```

```

public class AttributesImpl implements Attributes
{

```

```

////////////////////////////////////
// Constructors.
////////////////////////////////////

```

```

/**
 * Construct a new, empty AttributesImpl object.
 */
public AttributesImpl ()
{
    length = 0;
    data = null;
}

```

```

/**
 * Copy an existing Attributes object.
 *
 * <p>This constructor is especially useful inside a
 * { @link org.xml.sax.ContentHandler#startElement startElement } event.</p>
 *
 * @param atts The existing Attributes object.
 */
public AttributesImpl (Attributes atts)
{
setAttributes(atts);
}

```

```

////////////////////////////////////
// Implementation of org.xml.sax.Attributes.
////////////////////////////////////

```

```

/**
 * Return the number of attributes in the list.
 *
 * @return The number of attributes in the list.
 * @see org.xml.sax.Attributes#getLength()
 */
public int getLength ()
{
return length;
}

```

```

/**
 * Return an attribute's Namespace URI.
 *
 * @param index The attribute's index (zero-based).
 * @return The Namespace URI, the empty string if none is
 *         available, or null if the index is out of range.
 * @see org.xml.sax.Attributes#getURI(int)
 */
public String getURI (int index)
{
if (index >= 0 && index < length) {
return data[index*5];
} else {
return null;
}
}

```

```

}
}

/**
 * Return an attribute's local name.
 *
 * @param index The attribute's index (zero-based).
 * @return The attribute's local name, the empty string if
 *         none is available, or null if the index is out of range.
 * @see org.xml.sax.Attributes#getLocalName(int)
 */
public String getLocalName (int index)
{
if (index >= 0 && index < length) {
    return data[index*5+1];
} else {
    return null;
}
}

/**
 * Return an attribute's qualified (prefixed) name.
 *
 * @param index The attribute's index (zero-based).
 * @return The attribute's qualified name, the empty string if
 *         none is available, or null if the index is out of bounds.
 * @see org.xml.sax.Attributes#getQName(int)
 */
public String getQName (int index)
{
if (index >= 0 && index < length) {
    return data[index*5+2];
} else {
    return null;
}
}

/**
 * Return an attribute's type by index.
 *
 * @param index The attribute's index (zero-based).
 * @return The attribute's type, "CDATA" if the type is unknown, or null
 *         if the index is out of bounds.
 * @see org.xml.sax.Attributes#getType(int)
 */

```

```

public String getType (int index)
{
if (index >= 0 && index < length) {
    return data[index*5+3];
} else {
    return null;
}
}

/**
 * Return an attribute's value by index.
 *
 * @param index The attribute's index (zero-based).
 * @return The attribute's value or null if the index is out of bounds.
 * @see org.xml.sax.Attributes#getValue(int)
 */
public String getValue (int index)
{
if (index >= 0 && index < length) {
    return data[index*5+4];
} else {
    return null;
}
}

/**
 * Look up an attribute's index by Namespace name.
 *
 * <p>In many cases, it will be more efficient to look up the name once and
 * use the index query methods rather than using the name query methods
 * repeatedly.</p>
 *
 * @param uri The attribute's Namespace URI, or the empty
 *     string if none is available.
 * @param localName The attribute's local name.
 * @return The attribute's index, or -1 if none matches.
 * @see org.xml.sax.Attributes#getIndex(java.lang.String,java.lang.String)
 */
public int getIndex (String uri, String localName)
{
int max = length * 5;
for (int i = 0; i < max; i += 5) {
    if (data[i].equals(uri) && data[i+1].equals(localName)) {
return i / 5;
    }
}
}

```

```

return -1;
}

/**
 * Can be used if parameters are interned.
 */
public int getIndexFast(String uri, String localName) {
    for (int i = (length-1)*5; i>=0; i-=5) {
        // local names tend to be different, so test it first
        if (data[i + 1] == localName && data[i] == uri ) {
            return i / 5;
        }
    }
    return -1;
}

/**
 * Look up an attribute's index by qualified (prefixed) name.
 *
 * @param qName The qualified name.
 * @return The attribute's index, or -1 if none matches.
 * @see org.xml.sax.Attributes#getIndex(java.lang.String)
 */
public int getIndex (String qName)
{
    int max = length * 5;
    for (int i = 0; i < max; i += 5) {
        if (data[i+2].equals(qName)) {
            return i / 5;
        }
    }
    return -1;
}

/**
 * Look up an attribute's type by Namespace-qualified name.
 *
 * @param uri The Namespace URI, or the empty string for a name
 * with no explicit Namespace URI.
 * @param localName The local name.
 * @return The attribute's type, or null if there is no
 * matching attribute.
 * @see org.xml.sax.Attributes#getType(java.lang.String,java.lang.String)
 */
public String getType (String uri, String localName)
{

```



```

int max = length * 5;
for (int i = 0; i < max; i += 5) {
    if (data[i].equals(uri) && data[i+1].equals(localName)) {
        return data[i+3];
    }
}
return null;
}

/**
 * Look up an attribute's type by qualified (prefixed) name.
 *
 * @param qName The qualified name.
 * @return The attribute's type, or null if there is no
 *         matching attribute.
 * @see org.xml.sax.Attributes#getType(java.lang.String)
 */
public String getType (String qName)
{
int max = length * 5;
for (int i = 0; i < max; i += 5) {
    if (data[i+2].equals(qName)) {
        return data[i+3];
    }
}
return null;
}

/**
 * Look up an attribute's value by Namespace-qualified name.
 *
 * @param uri The Namespace URI, or the empty string for a name
 *            with no explicit Namespace URI.
 * @param localName The local name.
 * @return The attribute's value, or null if there is no
 *         matching attribute.
 * @see org.xml.sax.Attributes#getValue(java.lang.String,java.lang.String)
 */
public String getValue (String uri, String localName)
{
int max = length * 5;
for (int i = 0; i < max; i += 5) {
    if (data[i].equals(uri) && data[i+1].equals(localName)) {
        return data[i+4];
    }
}
}

```

```

return null;
}

/**
 * Look up an attribute's value by qualified (prefixed) name.
 *
 * @param qName The qualified name.
 * @return The attribute's value, or null if there is no
 *         matching attribute.
 * @see org.xml.sax.Attributes#getValue(java.lang.String)
 */
public String getValue (String qName)
{
int max = length * 5;
for (int i = 0; i < max; i += 5) {
    if (data[i+2].equals(qName)) {
return data[i+4];
    }
}
return null;
}

```

```

////////////////////////////////////
// Manipulators.
////////////////////////////////////

```

```

/**
 * Clear the attribute list for reuse.
 *
 * <p>Note that little memory is freed by this call:
 * the current array is kept so it can be
 * reused.</p>
 */
public void clear ()
{
if (data != null) {
    for (int i = 0; i < (length * 5); i++)
data [i] = null;
}
length = 0;
}

/**

```

```

* Copy an entire Attributes object.
*
* <p>It may be more efficient to reuse an existing object
* rather than constantly allocating new ones.</p>
*
* @param atts The attributes to copy.
*/
public void setAttributes (Attributes atts)
{
    clear();
    length = atts.getLength();
    if (length > 0) {
        data = new String[length*5];
        for (int i = 0; i < length; i++) {
            data[i*5] = atts.getURI(i);
            data[i*5+1] = atts.getLocalName(i);
            data[i*5+2] = atts.getQName(i);
            data[i*5+3] = atts.getType(i);
            data[i*5+4] = atts.getValue(i);
        }
    }
}

/**
* Add an attribute to the end of the list.
*
* <p>For the sake of speed, this method does no checking
* to see if the attribute is already in the list: that is
* the responsibility of the application.</p>
*
* @param uri The Namespace URI, or the empty string if
*     none is available or Namespace processing is not
*     being performed.
* @param localName The local name, or the empty string if
*     Namespace processing is not being performed.
* @param qName The qualified (prefixed) name, or the empty string
*     if qualified names are not available.
* @param type The attribute type as a string.
* @param value The attribute value.
*/
public void addAttribute (String uri, String localName, String qName,
    String type, String value)
{
    ensureCapacity(length+1);
    data[length*5] = uri;
    data[length*5+1] = localName;
    data[length*5+2] = qName;
}

```

```

data[length*5+3] = type;
data[length*5+4] = value;
length++;
}

/**
 * Set an attribute in the list.
 *
 * <p>For the sake of speed, this method does no checking
 * for name conflicts or well-formedness: such checks are the
 * responsibility of the application.</p>
 *
 * @param index The index of the attribute (zero-based).
 * @param uri The Namespace URI, or the empty string if
 *     none is available or Namespace processing is not
 *     being performed.
 * @param localName The local name, or the empty string if
 *     Namespace processing is not being performed.
 * @param qName The qualified name, or the empty string
 *     if qualified names are not available.
 * @param type The attribute type as a string.
 * @param value The attribute value.
 * @exception java.lang.ArrayIndexOutOfBoundsException When the
 *     supplied index does not point to an attribute
 *     in the list.
 */
public void setAttribute (int index, String uri, String localName,
    String qName, String type, String value)
{
    if (index >= 0 && index < length) {
        data[index*5] = uri;
        data[index*5+1] = localName;
        data[index*5+2] = qName;
        data[index*5+3] = type;
        data[index*5+4] = value;
    } else {
        badIndex(index);
    }
}

/**
 * Remove an attribute from the list.
 *
 * @param index The index of the attribute (zero-based).
 * @exception java.lang.ArrayIndexOutOfBoundsException When the
 *     supplied index does not point to an attribute

```

```

*      in the list.
*/
public void removeAttribute (int index)
{
if (index >= 0 && index < length) {
    if (index < length - 1) {
System.arraycopy(data, (index+1)*5, data, index*5,
    (length-index-1)*5);
    }
    index = (length - 1) * 5;
    data [index++] = null;
    data [index++] = null;
    data [index++] = null;
    data [index++] = null;
    data [index] = null;
    length--;
} else {
    badIndex(index);
}
}

/**
 * Set the Namespace URI of a specific attribute.
 *
 * @param index The index of the attribute (zero-based).
 * @param uri The attribute's Namespace URI, or the empty
 *      string for none.
 * @exception java.lang.ArrayIndexOutOfBoundsException When the
 *      supplied index does not point to an attribute
 *      in the list.
 */
public void setURI (int index, String uri)
{
if (index >= 0 && index < length) {
    data[index*5] = uri;
} else {
    badIndex(index);
}
}

/**
 * Set the local name of a specific attribute.
 *
 * @param index The index of the attribute (zero-based).
 * @param localName The attribute's local name, or the empty
 *      string for none.

```

```

* @exception java.lang.ArrayIndexOutOfBoundsException When the
*     supplied index does not point to an attribute
*     in the list.
*/
public void setLocalName (int index, String localName)
{
if (index >= 0 && index < length) {
    data[index*5+1] = localName;
} else {
    badIndex(index);
}
}

/**
* Set the qualified name of a specific attribute.
*
* @param index The index of the attribute (zero-based).
* @param qName The attribute's qualified name, or the empty
*     string for none.
* @exception java.lang.ArrayIndexOutOfBoundsException When the
*     supplied index does not point to an attribute
*     in the list.
*/
public void setQName (int index, String qName)
{
if (index >= 0 && index < length) {
    data[index*5+2] = qName;
} else {
    badIndex(index);
}
}

/**
* Set the type of a specific attribute.
*
* @param index The index of the attribute (zero-based).
* @param type The attribute's type.
* @exception java.lang.ArrayIndexOutOfBoundsException When the
*     supplied index does not point to an attribute
*     in the list.
*/
public void setType (int index, String type)
{
if (index >= 0 && index < length) {
    data[index*5+3] = type;
} else {

```

```

        badIndex(index);
    }
}

/**
 * Set the value of a specific attribute.
 *
 * @param index The index of the attribute (zero-based).
 * @param value The attribute's value.
 * @exception java.lang.ArrayIndexOutOfBoundsException When the
 *         supplied index does not point to an attribute
 *         in the list.
 */
public void setValue (int index, String value)
{
    if (index >= 0 && index < length) {
        data[index*5+4] = value;
    } else {
        badIndex(index);
    }
}

```

```

////////////////////////////////////
// Internal methods.
////////////////////////////////////

```

```

/**
 * Ensure the internal array's capacity.
 *
 * @param n The minimum number of attributes that the array must
 *         be able to hold.
 */
private void ensureCapacity (int n) {
    if (n <= 0) {
        return;
    }
    int max;
    if (data == null || data.length == 0) {
        max = 25;
    }
    else if (data.length >= n * 5) {
        return;
    }
    else {

```

```

        max = data.length;
    }
    while (max < n * 5) {
        max *= 2;
    }

    String newData[] = new String[max];
    if (length > 0) {
        System.arraycopy(data, 0, newData, 0, length*5);
    }
    data = newData;
}

/**
 * Report a bad array index in a manipulator.
 *
 * @param index The index to report.
 * @exception java.lang.ArrayIndexOutOfBoundsException Always.
 */
private void badIndex (int index)
throws ArrayIndexOutOfBoundsException
{
String msg =
    "Attempt to modify attribute at illegal index: " + index;
throw new ArrayIndexOutOfBoundsException(msg);
}

////////////////////////////////////
// Internal state.
////////////////////////////////////

int length;
String data [];

}

// end of AttributesImpl.java
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- */

```
package com.sun.xml.bind.v2.schemagen.xmlschema;
```

```
import javax.xml.namespace.QName;
import com.sun.xml.txw2.TypedXmlWriter;
import com.sun.xml.txw2.annotation.XmlAttribute;
import com.sun.xml.txw2.annotation.XmlElement;
```

```
public interface SimpleRestrictionModel
    extends SimpleTypeHost, TypedXmlWriter
{
```

```
    @XmlAttribute
    public SimpleRestrictionModel base(QName value);
```

```
    @XmlElement
```

```

public NoFixedFacet enumeration();

}
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 */

package com.sun.xml.bind.v2.schemagen.xmlschema;

import com.sun.xml.txw2.TypedXmlWriter;
import com.sun.xml.txw2.annotation.XmlElement;

```

```

@XmlElement("simpleContent")
public interface SimpleContent
    extends Annotated, TypedXmlWriter
{

    @XmlElement
    public SimpleExtension extension();

    @XmlElement
    public SimpleRestriction restriction();

}
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*/
```

```
package com.sun.xml.bind.v2.schemagen.xmlschema;
```

```
import com.sun.xml.txw2.TypedXmlWriter;
import com.sun.xml.txw2.annotation.XmlElement;
```

```
public interface SimpleDerivation
    extends TypedXmlWriter
{
```

```
    @XmlElement
    public SimpleRestriction restriction();
```

```
    @XmlElement
    public Union union();
```

```
    @XmlElement
    public List list();
```

```
}
/*
```

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 */

```
package com.sun.xml.bind.v2.schemagen.xmlschema;
```

```
import javax.xml.namespace.QName;
import com.sun.xml.txw2.TypedXmlWriter;
import com.sun.xml.txw2.annotation.XmlAttribute;
import com.sun.xml.txw2.annotation.XmlElement;
```

```
@XmlElement("restriction")
public interface ComplexRestriction
    extends Annotated, AttrDecls, TypeDefParticle, TypedXmlWriter
{

    @XmlAttribute
    public ComplexRestriction base(QName value);

}
/*
```

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```
package com.sun.xml.bind.v2.schemagen.xmlschema;
```

```
import com.sun.xml.txw2.TypedXmlWriter;
import com.sun.xml.txw2.annotation.XmlAttribute;
import com.sun.xml.txw2.annotation.XmlElement;
```

```
@XmlElement("complexType")
public interface ComplexType
    extends Annotated, ComplexTypeModel, TypedXmlWriter
{
```

```
    @XmlAttribute("final")
    public ComplexType _final(String value);
```

```
    @XmlAttribute("final")
    public ComplexType _final(String[] value);
```

```
    @XmlAttribute
    public ComplexType block(String value);
```

```
    @XmlAttribute
```

```

public ComplexType block(String[] value);

@XmlAttribute("abstract")
public ComplexType _abstract(boolean value);

@XmlAttribute
public ComplexType name(String value);

}
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```

```

package com.sun.xml.bind.v2.schemagen.xmlschema;

import com.sun.xml.txw2.TypedXmlWriter;
import com.sun.xml.txw2.annotation.XmlElement;

@XmlElement("extension")
public interface SimpleExtension
    extends AttrDecls, ExtensionType, TypedXmlWriter
{

}

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```
package com.sun.xml.bind.v2.schemagen.xmlschema;
```

```
import com.sun.xml.txw2.TypedXmlWriter;
import com.sun.xml.txw2.annotation.XmlElement;
```

```
public interface ComplexTypeHost
    extends TypeHost, TypedXmlWriter
{
```

```
    @XmlElement
    public ComplexType complexType();
```

```
}
```

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*/

```
package com.sun.xml.bind.v2.schemagen.xmlschema;
```

```
import com.sun.xml.txw2.TypedXmlWriter;
```

```
public interface ExplicitGroup  
    extends Annotated, NestedParticle, Occurs, TypedXmlWriter  
{
```

```
}
```

```
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```

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package com.sun.xml.bind.v2.schemagen.xmlschema;

import com.sun.xml.txw2.TypedXmlWriter;
import com.sun.xml.txw2.annotation.XmlElement;

@XmlElement("extension")
public interface ComplexExtension
 extends AttrDecls, ExtensionType, TypeDefParticle, TypedXmlWriter
{

}

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 */

```
package com.sun.xml.bind.v2.schemagen.xmlschema;
```

```
import com.sun.xml.txw2.TypedXmlWriter;
import com.sun.xml.txw2.annotation.XmlElement;
```

```
@XmlElement("restriction")
public interface SimpleRestriction
    extends Annotated, AttrDecls, SimpleRestrictionModel, TypedXmlWriter
{
```

```
}
/*
```

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 */

```
package com.sun.xml.bind.v2.schemagen.xmlschema;
```

```
import com.sun.xml.txw2.TypedXmlWriter;
import com.sun.xml.txw2.annotation.XmlAttribute;
import com.sun.xml.txw2.annotation.XmlElement;
```

```
@XmlElement("complexContent")
public interface ComplexContent
    extends Annotated, TypedXmlWriter
{
```

```
    @XmlElement
    public ComplexExtension extension();
```

```
    @XmlElement
    public ComplexRestriction restriction();
```

```
    @XmlAttribute
    public ComplexContent mixed(boolean value);
```

```
}
/*
```

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```
package com.sun.xml.bind.v2.schemagen.xmlschema;
```

```
import com.sun.xml.txw2.TypedXmlWriter;
import com.sun.xml.txw2.annotation.XmlAttribute;
import com.sun.xml.txw2.annotation.XmlElement;
```

```
public interface ComplexTypeModel
    extends AttrDecls, TypeDefParticle, TypedXmlWriter
{
```

```
    @XmlElement
    public SimpleContent simpleContent();
```

```

@XmlElement
public ComplexContent complexContent();

@XmlAttribute
public ComplexTypeModel mixed(boolean value);

}
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```

```

package com.sun.xml.bind.v2.schemagen.xmlschema;

import com.sun.xml.txw2.TypedXmlWriter;
import com.sun.xml.txw2.annotation.XmlAttribute;
import com.sun.xml.txw2.annotation.XmlElement;

@XmlElement("simpleType")
public interface SimpleType
    extends Annotated, SimpleDerivation, TypedXmlWriter
{

    @XmlAttribute("final")
    public SimpleType _final(String[] value);

    @XmlAttribute("final")
    public SimpleType _final(String value);

    @XmlAttribute
    public SimpleType name(String value);

}

```

1.361 JAXB RI 2.2.1.1

1.361.1 Available under license :

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1.362 jaxb-api 2.2.7

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1.363 jaxb-api 2.2

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responsible for delivering the specification, a reference implementation (RI) and a Technology Compatibility Kit (TCK). The primary goal of an RI is to support the development of the specification and to validate it. Specific RIs can have additional goals; the JAXB RI is a production-quality implementation that is used directly in a number of products by Oracle and other vendors.

The JAXB expert group has wide industry participation with Oracle as the EG lead. The initial specification (JAXB 1.0) was JSR-31 and was released in March 2003.

The next versions of the spec (JAXB 2.0/2.1/2.2) are being developed as JSR-222. This release addresses a number of additional requirements in the area, and increases the synergy between the JAXB and JAX-WS specifications.

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.364 jaxen 1.1.6

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```
/*
$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $
```

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1.366 jbigkit 2.0 :11.e17

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1.367 JBoss Logging 3 3.1.1.GA

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signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice
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1.378 Jcommon-wso2 1.0.15.wso2v1

1.378.1 Available under license :

```
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* =====  
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```

```

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*
* -----
* Contributor.java
* -----
* (C) Copyright 2001-2004, by Object Refinery Limited.
*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* $Id: Contributor.java,v 1.4 2005/11/16 15:58:41 taqua Exp $
*
* Changes
* -----
* 10-Dec-2001 : Version 1 (DG);
* 28-Feb-2002 : Moved into package com.jrefinery.ui.about (DG);
* 08-Oct-2002 : Fixed errors reported by Checkstyle (DG);
*
*/

```

```
package org.jfree.ui.about;
```

```

/**
 * A simple class representing a contributor to a software project.
 * <P>
 * Used in the AboutFrame class.
 *
 * @author David Gilbert
 */

```

```

public class Contributor {

    /** The name. */
    private String name;

    /** The e-mail address. */
    private String email;

    /**
     * Creates a new contributor.
     *
     * @param name the name.
     * @param email the e-mail address.
     */
    public Contributor(final String name, final String email) {
        this.name = name;
    }
}

```

```

        this.email = email;
    }

    /**
     * Returns the contributor's name.
     *
     * @return the contributor's name.
     */
    public String getName() {
        return this.name;
    }

    /**
     * Returns the contributor's e-mail address.
     *
     * @return the contributor's e-mail address.
     */
    public String getEmail() {
        return this.email;
    }

}

/* =====
 * JCommon : a free general purpose class library for the Java(tm) platform
 * =====
 *
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 *
 * Project Info: http://www.jfree.org/jcommon/index.html
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 *
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 *

```

```

* -----
* Licences.java
* -----
* (C) Copyright 2001-2004, by Object Refinery Limited.
*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* $Id: Licences.java,v 1.4 2005/11/16 15:58:41 taqua Exp $
*
* Changes
* -----
* 26-Nov-2001 : Version 1 (DG);
* 29-Jan-2002 : Appended the instructions to the end of the GNU LGPL and GPL to comply with
*               GNU requirements (DG);
* 28-Feb-2002 : Moved to package com.jrefinery.ui.about (DG);
* 08-Oct-2002 : Fixed errors reported by Checkstyle (DG);
*
*/

package org.jfree.ui.about;

/**
 * Contains the full texts of the GNU General Public Licence and the GNU Lesser General Public
 * Licence.
 * <P>
 * These are used in the presentation of a standard 'About' frame.
 *
 * @author David Gilbert
 */
public class Licences {

    /** The GNU General Public Licence. */
    public static final String GPL = "GNU GENERAL PUBLIC LICENSE\n"
        + "\n"
        + "Version 2, June 1991\n"
        + "\n"
        + "Copyright (C) 1989, 1991 Free Software Foundation, Inc. 675 Mass Ave, Cambridge, "
        + "MA 02139, USA. Everyone is permitted to copy and distribute verbatim copies of this "
        + "license document, but changing it is not allowed.\n"
        + "\n"
        + "Preamble\n"
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+ "\n"
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+ "License."
+ "\n"
+ "7. If, as a consequence of a court judgment or allegation of patent infringement or "
+ "for any other reason (not limited to patent issues), conditions are imposed on you "
+ "(whether by court order, agreement or otherwise) that contradict the conditions of "
+ "this License, they do not excuse you from the conditions of this License. If you "
+ "cannot distribute so as to satisfy simultaneously your obligations under this License "
+ "and any other pertinent obligations, then as a consequence you may not distribute the "
+ "Program at all. For example, if a patent license would not permit royalty-free "
+ "redistribution of the Program by all those who receive copies directly or indirectly "
+ "through you, then the only way you could satisfy both it and this License would be to "
+ "refrain entirely from distribution of the Program.\n"
+ "\n"
+ "If any portion of this section is held invalid or unenforceable under any particular "
+ "circumstance, the balance of the section is intended to apply and the section as a "
+ "whole is intended to apply in other circumstances.\n"
+ "\n"
+ "It is not the purpose of this section to induce you to infringe any patents or other "
+ "property right claims or to contest validity of any such claims; this section has the "
+ "sole purpose of protecting the integrity of the free software distribution system, "
+ "which is implemented by public license practices. Many people have made generous "
+ "contributions to the wide range of software distributed through that system in "
+ "reliance on consistent application of that system; it is up to the author/donor to "
+ "decide if he or she is willing to distribute software through any other system and a "
+ "licensee cannot impose that choice.\n"
+ "\n"
+ "This section is intended to make thoroughly clear what is believed to be a consequence "
+ "of the rest of this License.\n"
+ "\n"
+ "8. If the distribution and/or use of the Program is restricted in certain countries "
+ "either by patents or by copyrighted interfaces, the original copyright holder who "
+ "places the Program under this License may add an explicit geographical distribution "
+ "limitation excluding those countries, so that distribution is permitted only in or "
+ "among countries not thus excluded. In such case, this License incorporates the "
+ "limitation as if written in the body of this License.\n"
+ "\n"
+ "9. The Free Software Foundation may publish revised and/or new versions of the General "
+ "Public License from time to time. Such new versions will be similar in spirit to the "
+ "present version, but may differ in detail to address new problems or concerns.\n"
+ "\n"

+ "Each version is given a distinguishing version number. If the Program specifies a "
+ "version number of this License which applies to it and \"any later version\", you have "
+ "the option of following the terms and conditions either of that version or of any "
+ "later version published by the Free Software Foundation. If the Program does not "
+ "specify a version number of this License, you may choose any version ever published by "
+ "the Free Software Foundation.\n"
+ "\n"
+ "10. If you wish to incorporate parts of the Program into other free programs whose "
+ "distribution conditions are different, write to the author to ask for permission. For "
+ "software which is copyrighted by the Free Software Foundation, write to the Free "
+ "Software Foundation; we sometimes make exceptions for this. Our decision will be "
+ "guided by the two goals of preserving the free status of all derivatives of our free "
+ "software and of promoting the sharing and reuse of software generally.\n"
+ "\n"
+ "NO WARRANTY\n"
+ "\n"
+ "11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE "
+ "PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN "
+ "WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM \"AS
IS\" "
+ "WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT
NOT LIMITED "
+ "TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. "
+ "THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD "
+ "THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY
SERVICING, REPAIR OR "
+ "CORRECTION.\n"
+ "\n"
+ "12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL
ANY "
+ "COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
THE PROGRAM AS "
+ "PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL,
SPECIAL, "
+ "INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO
USE THE "
+ "PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE "
+ "OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO
OPERATE "
+ "WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN
ADVISED OF THE "
+ "POSSIBILITY OF SUCH DAMAGES.\n"
+ "\n"

```

+ "END OF TERMS AND CONDITIONS\n"
+ "\n"
+ "\n"
+ "How to Apply These Terms to Your New Programs\n"
+ "\n"
+ "If you develop a new program, and you want it to be of the greatest possible use to "
+ "the public, the best way to achieve this is to make it free software which everyone "
+ "can redistribute and change under these terms.\n"
+ "\n"
+ "To do so, attach the following notices to the program. It is safest to attach them to "
+ "the start of each source file to most effectively convey the exclusion of warranty; "
+ "and each file should have at least the \"copyright\" line and a pointer to where the "
+ "full notice is found.\n"
+ "\n"
+ "<one line to give the program's name and a brief idea of what it does.>\n"
+ "Copyright (C) <year> <name of author>\n"
+ "\n"
+ "This program is free software; you can redistribute it and/or modify it under the "
+ "terms of the GNU General Public License as published by the Free Software Foundation; "
+ "either version 2 of the License, or (at your option) any later version.\n"
+ "\n"
+ "This program is distributed in the hope that it will be useful, but WITHOUT ANY "
+ "WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A "
+ "PARTICULAR PURPOSE. See the GNU General Public License for more details.\n"
+ "\n"
+ "You should have received a copy of the GNU General Public License along with this "
+ "program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite "
+ "330, Boston, MA 02111-1307 USA\n"
+ "\n"
+ "Also add information on how to contact you by electronic and paper mail.\n"
+ "\n"
+ "If the program is interactive, make it output a short notice like this when it starts "
+ "in an interactive mode:\n"
+ "\n"
+ "Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with "
+ "ABSOLUTELY NO WARRANTY; for details type `show w'.\n"
+ "This is free software, and you are welcome to redistribute it under certain "
+ "conditions; type `show c' for details.\n"
+ "\n"
+ "The hypothetical commands `show w' and `show c' should show the appropriate parts of "
+ "the General Public License. Of course, the commands you use may be called something "
+ "other than `show w' and `show c'; they could even be mouse-clicks or menu items"
+ "--whatever suits your program.\n"
+ "\n"
+ "You should also get your employer (if you work as a programmer) or your school, if "
+ "any, to sign a \"copyright disclaimer\" for the program, if necessary. Here is a "
+ "sample; alter the names:\n"
+ "\n"

```

```

+ "Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' "
+ "(which makes passes at compilers) written by James Hacker.\n"
+ "\n"
+ "<signature of Ty Coon>, 1 April 1989\n"
+ "Ty Coon, President of Vice\n"
+ "\n"
+ "This General Public License does not permit incorporating your program into "
+ "proprietary programs. If your program is a subroutine library, you may consider it "
+ "more useful to permit linking proprietary applications with the library. If this is "
+ "what you want to do, use the GNU Library General Public License instead of this "
+ "License.\n";

```

```

/** The GNU Lesser General Public Licence. */

```

```

public static final String LGPL = "GNU LESSER GENERAL PUBLIC LICENSE\n"
+ "\n"
+ "Version 2.1, February 1999\n"
+ "\n"
+ "Copyright (C) 1991, 1999 Free Software Foundation, Inc.\n"
+ "59 Temple Place, Suite 330, Boston, MA 02111-1307 USA\n"
+ "Everyone is permitted to copy and distribute verbatim copies of this license document, "
+ "but changing it is not allowed.\n"
+ "\n"
+ "[This is the first released version of the Lesser GPL. It also counts as the "
+ "successor of the GNU Library Public License, version 2, hence the version number "
+ "2.1.]\n"
+ "\n"
+ "Preamble\n"
+ "\n"
+ "The licenses for most software are designed to take away your freedom to share and "
+ "change it. By contrast, the GNU General Public Licenses are intended to guarantee your "
+ "freedom to share and change free software--to make sure the software is free for all "
+ "its users.\n"
+ "\n"
+ "This license, the Lesser General Public License, applies to some specially designated "
+ "software packages--typically libraries--of the Free Software Foundation and other "
+ "authors who decide to use it. You can use it too, but we suggest you first think "
+ "carefully about whether this license or the ordinary General Public License is the "
+ "better strategy to use in any particular case, based on the explanations below.\n"
+ "\n"
+ "When we speak of free software, we are referring to freedom of use, not price. Our "
+ "General Public Licenses are designed to make sure that you have the freedom to "
+ "distribute copies of free software (and charge for this service if you wish); that you "
+ "receive source code or can get it if you want it; that you can change the software and "
+ "use pieces of it in new free programs; and that you are informed that you can do these "
+ "things.\n"
+ "\n"
+ "To protect your rights, we need to make restrictions that forbid distributors to deny "
+ "you these rights or to ask you to surrender these rights. These restrictions translate "

```

+ "to certain responsibilities for you if you distribute copies of the library or if you "

+ "modify it.\n"

+ "\n"

+ "For example, if you distribute copies of the library, whether gratis or for a fee, you "

+ "must give the recipients all the rights that we gave you. You must make sure that "

+ "they, too, receive or can get the source code. If you link other code with the "

+ "library, you must provide complete object files to the recipients, so that they can "

+ "relink them with the library after making changes to the library and recompiling it. "

+ "And you must show them these terms so they know their rights.\n"

+ "\n"

+ "We protect your rights with a two-step method: (1) we copyright the library, and (2) "

+ "we offer you this license, which gives you legal permission to copy, distribute and/or "

+ "modify the library.\n"

+ "\n"

+ "To protect each distributor, we want to make it very clear that there is no warranty "

+ "for the free library. Also, if the library is modified by someone else and passed on, "

+ "the recipients should know that what they have is not the original version, so that "

+ "the original author's reputation will not be affected by problems that might be "

+ "introduced by others.\n"

+ "\n"

+ "Finally, software patents pose a constant threat to the existence of any free program. "

+ "We wish to make sure that a company cannot effectively restrict the users of a free "

+ "program by obtaining a restrictive license from a patent holder. Therefore, we insist "

+ "that any patent license obtained for a version of the library must be consistent with "

+ "the full freedom of use specified in this license.\n"

+ "\n"

+ "Most GNU software, including some libraries, is covered by the ordinary GNU General "

+ "Public License. This license, the GNU Lesser General Public License, applies to "

+ "certain designated libraries, and is quite different from the ordinary General Public "

+ "License. We use this license for certain libraries in order to permit linking those "

+ "libraries into non-free programs.\n"

+ "\n"

+ "When a program is linked with a library, whether statically or using a shared library, "

+ "the combination of the two is legally speaking a combined work, a derivative of the "

+ "original library. The ordinary General Public License therefore permits such linking "

+ "only if the entire combination fits its criteria of freedom. The Lesser General Public "

+ "License permits more lax criteria for linking other code with the library.\n"

+ "\n"

+ "We call this license the \"Lesser\" General Public License because it does Less to "

+ "protect the user's freedom than the ordinary General Public License. It also provides "

+ "other free software developers Less of an advantage over competing non-free programs. "

+ "These disadvantages are the reason we use the ordinary General Public License for many "

+ "libraries. However, the Lesser license provides advantages in certain special "

+ "circumstances.\n"

+ "\n"

+ "For example, on rare occasions, there may be a special need to encourage the widest "

+ "possible use of a certain library, so that it becomes a de-facto standard. To achieve "

+ "this, non-free programs must be allowed to use the library. A more frequent case is "

+ "that a free library does the same job as widely used non-free libraries. In this case, "

+ "there is little to gain by limiting the free library to free software only, so we use "

+ "the Lesser General Public License.\n"

+ "\n"

+ "In other cases, permission to use a particular library in non-free programs enables a "

+ "greater number of people to use a large body of free software. For example, permission "

+ "to use the GNU C Library in non-free programs enables many more people to use the "

+ "whole GNU operating system, as well as its variant, the GNU/Linux operating system.\n"

+ "\n"

+ "Although the Lesser General Public License is Less protective of the users' freedom, "

+ "it does ensure that the user of a program that is linked with the Library has the "

+ "freedom and the wherewithal to run that program using a modified version of the "

+ "Library.\n"

+ "\n"

+ "The precise terms and conditions for copying, distribution and modification follow. "

+ "Pay close attention to the difference between a \"work based on the library\" and a "

+ "\"work that uses the library\". The former contains code derived from the library, "

+ "whereas the latter must be combined with the library in order to run.\n"

+ "\n"

+ "TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION\n"

+ "\n"

+ "0. This License Agreement applies to any software library or other program which "

+ "contains a notice placed by the copyright holder or other authorized party saying it "

+ "may be distributed under the terms of this Lesser General Public License (also called "

+ "\"this License\"). Each licensee is addressed as \"you\"."

+ "\n"

+ "A \"library\" means a collection of software functions and/or data prepared so as to "

+ "be conveniently linked with application programs (which use some of those functions "

+ "and data) to form executables.\n"

+ "\n"

+ "The \"Library\", below, refers to any such software library or work which has been "

+ "distributed under these terms. A \"work based on the Library\" means either the "

+ "Library or any derivative work under copyright law: that is to say, a work containing "

+ "the Library or a portion of it, either verbatim or with modifications and/or "

+ "translated straightforwardly into another language. (Hereinafter, translation is "

+ "included without limitation in the term \"modification\").\n"

+ "\n"

+ "\"Source code\" for a work means the preferred form of the work for making "

+ "modifications to it. For a library, complete source code means all the source code for "

+ "all modules it contains, plus any associated interface definition files, plus the "

+ "scripts used to control compilation and installation of the library.\n"

+ "\n"

+ "Activities other than copying, distribution and modification are not covered by this "

+ "License; they are outside its scope. The act of running a program using the Library is "

+ "not restricted, and output from such a program is covered only if its contents "

+ "constitute a work based on the Library (independent of the use of the Library in a "

+ "tool for writing it). Whether that is true depends on what the Library does and what "

+ "the program that uses the Library does."

+ "\n"

+ "1. You may copy and distribute verbatim copies of the Library's complete source code "

+ "as you receive it, in any medium, provided that you conspicuously and appropriately "

+ "publish on each copy an appropriate copyright notice and disclaimer of warranty; keep "

+ "intact all the notices that refer to this License and to the absence of any warranty; "

+ "and distribute a copy of this License along with the Library.\n"

+ "\n"

+ "You may charge a fee for the physical act of transferring a copy, and you may at your "

+ "option offer warranty protection in exchange for a fee.\n"

+ "\n"

+ "2. You may modify your copy or copies of the Library or any portion of it, thus "

+ "forming a work based on the Library, and copy and distribute such modifications or "

+ "work under the terms of Section 1 above, provided that you also meet all of these "

+ "conditions:\n"

+ "\n"

+ "* a) The modified work must itself be a software library.\n"

+ "* b) You must cause the files modified to carry prominent notices stating that you "

+ "changed the files and the date of any change.\n"

+ "* c) You must cause the whole of the work to be licensed at no charge to all third "

+ "parties under the terms of this License.\n"

+ "* d) If a facility in the modified Library refers to a function or a table of data "

+ "to be supplied by an application program that uses the facility, other than as an "

+ "argument passed when the facility is invoked, then you must make a good faith effort "

+ "to ensure that, in the event an application does not supply such function or table, "

+ "the facility still operates, and performs whatever part of its purpose remains "

+ "meaningful.\n"

+ "\n"

+ "(For example, a function in a library to compute square roots has a purpose that is "

+ "entirely well-defined independent of the application. Therefore, Subsection 2d "

+ "requires that any application-supplied function or table used by this function must be "

+ "optional: if the application does not supply it, the square root function must still "

+ "compute square roots.)\n"

+ "\n"

+ "These requirements apply to the modified work as a whole. If identifiable sections of "

+ "that work are not derived from the Library, and can be reasonably considered "

+ "independent and separate works in themselves, then this License, and its terms, do not "

+ "apply to those sections when you distribute them as separate works. But when you "

+ "distribute the same sections as part of a whole which is a work based on the Library, "

+ "the distribution of the whole must be on the terms of this License, whose permissions "

+ "for other licensees extend to the entire whole, and thus to each and every part "

+ "regardless of who wrote it.\n"

+ "\n"

+ "Thus, it is not the intent of this section to claim rights or contest your rights to "

+ "work written entirely by you; rather, the intent is to exercise the right to control "

+ "the distribution of derivative or collective works based on the Library.\n"

+ "\n"

+ "In addition, mere aggregation of another work not based on the Library with the "

+ "Library (or with a work based on the Library) on a volume of a storage or distribution "

+ "medium does not bring the other work under the scope of this License.\n"

+ "\n"

+ "3. You may opt to apply the terms of the ordinary GNU General Public License instead "

+ "of this License to a given copy of the Library. To do this, you must alter all the "

+ "notices that refer to this License, so that they refer to the ordinary GNU General "

+ "Public License, version 2, instead of to this License. (If a newer version than "

+ "version 2 of the ordinary GNU General Public License has appeared, then you can "

+ "specify that version instead if you wish.) Do not make any other change in these "

+ "notices.\n"

+ "\n"

+ "Once this change is made in a given copy, it is irreversible for that copy, so the "

+ "ordinary GNU General Public License applies to all subsequent copies and derivative "

+ "works made from that copy.\n"

+ "\n"

+ "This option is useful when you wish to copy part of the code of the Library into a "

+ "program that is not a library.\n"

+ "\n"

+ "4. You may copy and distribute the Library (or a portion or derivative of it, under "

+ "Section 2) in object code or executable form under the terms of Sections 1 and 2 above "

+ "provided that you accompany it with the complete corresponding machine-readable source "

+ "code, which must be distributed under the terms of Sections 1 and 2 above on a medium "

+ "customarily used for software interchange.\n"

+ "\n"

+ "If distribution of object code is made by offering access to copy from a designated "

+ "place, then offering equivalent access to copy the source code from the same place "

+ "satisfies the requirement to distribute the source code, even though third parties are "

+ "not compelled to copy the source along with the object code.\n"

+ "\n"

+ "5. A program that contains no derivative of any portion of the Library, but is "

+ "designed to work with the Library by being compiled or linked with it, is called a "

+ "\"work that uses the Library\". Such a work, in isolation, is not a derivative work of "

+ "the Library, and therefore falls outside the scope of this License.\n"

+ "\n"

+ "However, linking a \"work that uses the Library\" with the Library creates an "

+ "executable that is a derivative of the Library (because it contains portions of the "

+ "Library), rather than a \"work that uses the library\". The executable is therefore "

+ "covered by this License. Section 6 states terms for distribution of such executables.\n"

+ "\n"

+ "When a \"work that uses the Library\" uses material from a header file that is part of "

+ "the Library, the object code for the work may be a derivative work of the Library even "

+ "though the source code is not. Whether this is true is especially significant if the "

+ "work can be linked without the Library, or if the work is itself a library. The "

+ "threshold for this to be true is not precisely defined by law.\n"

+ "\n"

+ "If such an object file uses only numerical parameters, data structure layouts and "

+ "accessors, and small macros and small inline functions (ten lines or less in length), "

+ "then the use of the object file is unrestricted, regardless of whether it is legally a "

+ "derivative work. (Executables containing this object code plus portions of the Library "

+ "will still fall under Section 6.)\n"

+ "\n"

+ "Otherwise, if the work is a derivative of the Library, you may distribute the object "

+ "code for the work under the terms of Section 6. Any executables containing that work "

+ "also fall under Section 6, whether or not they are linked directly with the Library "

+ "itself.\n"

+ "\n"

+ "6. As an exception to the Sections above, you may also combine or link a \"work that "

+ "uses the Library\" with the Library to produce a work containing portions of the "

+ "Library, and distribute that work under terms of your choice, provided that the terms "

+ "permit modification of the work for the customer's own use and reverse engineering for "

+ "debugging such modifications.\n"

+ "\n"

+ "You must give prominent notice with each copy of the work that the Library is used in "

+ "it and that the Library and its use are covered by this License. You must supply a "

+ "copy of this License. If the work during execution displays copyright notices, you "

+ "must include the copyright notice for the Library among them, as well as a reference "

+ "directing the user to the copy of this License. Also, you must do one of these "

+ "things:\n"

+ "\n"

+ "* a) Accompany the work with the complete corresponding machine-readable source "

+ "code for the Library including whatever changes were used in the work (which must be "

+ "distributed under Sections 1 and 2 above); and, if the work is an executable linked "

+ "with the Library, with the complete machine-readable \"work that uses the Library\", "

+ "as object code and/or source code, so that the user can modify the Library and then "

+ "relink to produce a modified executable containing the modified Library. (It is "

+ "understood that the user who changes the contents of definitions files in the Library "

+ "will not necessarily be able to recompile the application to use the modified "

+ "definitions.)\n"

+ "* b) Use a suitable shared library mechanism for linking with the Library. A "

+ "suitable mechanism is one that (1) uses at run time a copy of the library already "

+ "present on the user's computer system, rather than copying library functions into the "

+ "executable, and (2) will operate properly with a modified version of the library, if "

+ "the user installs one, as long as the modified version is interface-compatible with "

+ "the version that the work was made with.\n"

+ "* c) Accompany the work with a written offer, valid for at least three years, to "

+ "give the same user the materials specified in Subsection 6a, above, for a charge no "

+ "more than the cost of performing this distribution.\n"

+ "* d) If distribution of the work is made by offering access to copy from a "

+ "designated place, offer equivalent access to copy the above specified materials from "

+ "the same place.\n"

+ "* e) Verify that the user has already received a copy of these materials or that "

+ "you have already sent this user a copy.\n"

+ "\n"

+ "For an executable, the required form of the \"work that uses the Library\" must "

+ "include any data and utility programs needed for reproducing the executable from it. "

+ "However, as a special exception, the materials to be distributed need not include "

+ "anything that is normally distributed (in either source or binary form) with the major "

+ "components (compiler, kernel, and so on) of the operating system on which the "
+ "executable runs, unless that component itself accompanies the executable.\n"
+ "\n"
+ "It may happen that this requirement contradicts the license restrictions of other "
+ "proprietary libraries that do not normally accompany the operating system. Such a "
+ "contradiction means you cannot use both them and the Library together in an executable "
+ "that you distribute.\n"
+ "\n"
+ "7. You may place library facilities that are a work based on the Library side-by-side "
+ "in a single library together with other library facilities not covered by this "
+ "License, and distribute such a combined library, provided that the separate "
+ "distribution of the work based on the Library and of the other library facilities is "
+ "otherwise permitted, and provided that you do these two things:\n"
+ "\n"
+ "* a) Accompany the combined library with a copy of the same work based on the "
+ "Library, uncombined with any other library facilities. This must be distributed under "
+ "the terms of the Sections above.\n"
+ "* b) Give prominent notice with the combined library of the fact that part of it is "
+ "a work based on the Library, and explaining where to find the accompanying uncombined "
+ "form of the same work.\n"
+ "\n"
+ "8. You may not copy, modify, sublicense, link with, or distribute the Library except "
+ "as expressly provided under this License. Any attempt otherwise to copy, modify, "
+ "sublicense, link with, or distribute the Library is void, and will automatically "
+ "terminate your rights under this License. However, parties who have received copies, "
+ "or rights, from you under this License will not have their licenses terminated so "
+ "long as such parties remain in full compliance.\n"
+ "\n"
+ "9. You are not required to accept this License, since you have not signed it. However, "
+ "nothing else grants you permission to modify or distribute the Library or its "
+ "derivative works. These actions are prohibited by law if you do not accept this "
+ "License. Therefore, by modifying or distributing the Library (or any work based on the "
+ "Library), you indicate your acceptance of this License to do so, and all its terms and "
+ "conditions for copying, distributing or modifying the Library or works based on it.\n"
+ "\n"
+ "10. Each time you redistribute the Library (or any work based on the Library), the "
+ "recipient automatically receives a license from the original licensor to copy, "
+ "distribute, link with or modify the Library subject to these terms and conditions. You "
+ "may not impose any further restrictions on the recipients' exercise of the rights "
+ "granted herein. You are not responsible for enforcing compliance by third parties with "
+ "this License.\n"
+ "\n"
+ "11. If, as a consequence of a court judgment or allegation of patent infringement or "
+ "for any other reason (not limited to patent issues), conditions are imposed on you "
+ "(whether by court order, agreement or otherwise) that contradict the conditions of "
+ "this License, they do not excuse you from the conditions of this License. If you "
+ "cannot distribute so as to satisfy simultaneously your obligations under this License "
+ "and any other pertinent obligations, then as a consequence you may not distribute the "

+ "Library at all. For example, if a patent license would not permit royalty-free "
+ "redistribution of the Library by all those who receive copies directly or indirectly "
+ "through you, then the only way you could satisfy both it and this License would be to "
+ "refrain entirely from distribution of the Library.\n"
+ "\n"
+ "If any portion of this section is held invalid or unenforceable under any particular "
+ "circumstance, the balance of the section is intended to apply, and the section as a "
+ "whole is intended to apply in other circumstances.\n"
+ "\n"
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```

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+ "\n"
+ "<signature of Ty Coon>, 1 April 1990\n"
+ "Ty Coon, President of Vice\n"
+ "\n"
+ "That's all there is to it!\n";

```

```

/** The singleton instance of this class. */

```

```

private static Licences singleton;

```

```

/**

```

```

 * Returns a reference to this class.

```

```

 *

```

```

 * @return the instance reference.

```

```

 */

```

```

public static Licences getInstance() {

```

```

    if (singleton == null) {

```

```

        singleton = new Licences();

```

```

    }

```

```

    return singleton;

```

```

}

```

```

/**

```

```

 * Returns the GPL text in a non static way to prevent the compiler

```

```

 * to copy the contents of the field.

```

```

 *

```

```

 * @return the GPL licence text.

```

```

*/
public String getGPL() {
    return GPL;
}

/**
 * Returns the LGPL text in a non static way to prevent the compiler
 * to copy the contents of the field.
 *
 * @return the LGPL licence text.
 */
public String getLGPL() {
    return LGPL;
}
}

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 * =====
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 *
 * -----
 * PublicCloneable.java
 * -----
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 *
 * Original Author: David Gilbert (for Object Refinery Limited);
 * Contributor(s): -;

```

```

*
* $Id: PublicCloneable.java,v 1.3 2005/10/18 13:24:19 mungady Exp $
*
* Changes
* -----
* 18-Aug-2003 : Version 1 (DG);
*
*/

package org.jfree.util;

/**
 * An interface that exposes the clone() method.
 * @author David Gilbert
 */
public interface PublicCloneable extends Cloneable {

    /**
     * Returns a clone of the object.
     *
     * @return A clone.
     *
     * @throws CloneNotSupportedException if cloning is not supported for some reason.
     */
    public Object clone() throws CloneNotSupportedException;

}

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 * =====
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* Original Author: Thomas Morgner;
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*
* $Id: SimpleDateFormatObjectDescription.java,v 1.3 2005/11/14 11:04:12 mungady Exp $
*
* Changes (from 19-Feb-2003)
* -----
* 19-Feb-2003 : Added standard header and Javadocs (DG);
* 29-Apr-2003 : Distilled from the JFreeReport project and moved into JCommon
*
*/

```

```
package org.jfree.xml.factory.objects;
```

```
import java.text.DateFormatSymbols;
import java.text.NumberFormat;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.Date;
```

```
/**
```

```
* An object-description for a SimpleDateFormat object.
```

```
*
```

```
* @author Thomas Morgner
```

```
*/
```

```
public class SimpleDateFormatObjectDescription extends BeanObjectDescription {
```

```
/**
```

```
* Creates a new object description.
```

```
*/
```

```
public SimpleDateFormatObjectDescription() {
    this(SimpleDateFormat.class);
}
```

```
/**
```

```
* Creates a new object description.
```

```
*
```

```
* @param className the class.
```

```

*/
public SimpleDateFormatObjectDescription(final Class className) {
    this(className, true);
}

/**
 * Creates a new object description.
 *
 * @param className the class.
 * @param init initialise?
 */
public SimpleDateFormatObjectDescription(final Class className, final boolean init) {
    super(className, false);
    setParameterDefinition("2DigitYearStart", Date.class);
    setParameterDefinition("calendar", Calendar.class);
    setParameterDefinition("dateFormatSymbols", DateFormatSymbols.class);
    setParameterDefinition("lenient", Boolean.TYPE);
    setParameterDefinition("numberFormat", NumberFormat.class);
//    setParameterDefinition("timeZone", TimeZone.class);
    setParameterDefinition("localizedPattern", String.class);
    setParameterDefinition("pattern", String.class);
    ignoreParameter("localizedPattern");
    ignoreParameter("pattern");
}

/**
 * Sets the parameters of this description object to match the supplied object.
 *
 * @param o the object.
 *
 * @throws ObjectFactoryException if there is a problem while reading the
 * properties of the given object.
 */
public void setParameterFromObject(final Object o)
    throws ObjectFactoryException {
    super.setParameterFromObject(o);
    final SimpleDateFormat format = (SimpleDateFormat) o;
    setParameter("localizedPattern", format.toLocalizedPattern());
    setParameter("pattern", format.toPattern());
}

/**
 * Creates an object based on this description.
 *
 * @return The object.
 */
public Object createObject() {
    final SimpleDateFormat format = (SimpleDateFormat) super.createObject();

```

```

    if (getParameter("pattern") != null) {
        format.applyPattern((String) getParameter("pattern"));
    }
    if (getParameter("localizedPattern") != null) {
        format.applyLocalizedPattern((String) getParameter("localizedPattern"));
    }
    return format;
}
}

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* =====
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* -----
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*
* Original Author: Thomas Morgner;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* $Id: ClassFactoryImpl.java,v 1.6 2006/01/25 23:15:03 taqua Exp $
*
* Changes (from 19-Feb-2003)
* -----

```

```

* 19-Feb-2003 : Added standard header and Javadocs (DG);
* 29-Apr-2003 : Distilled from the JFreeReport project and moved into JCommon
* 29-Jul-2004 : Replaced 'enum' variable name (reserved word in JDK 1.5) (DG);
*
*/

```

```

package org.jfree.xml.factory.objects;

```

```

import java.util.HashMap;
import java.util.Iterator;

```

```

import org.jfree.util.Configuration;
import org.jfree.util.ClassComparator;

```

```

/**

```

```

* An abstract class that implements the {@link ClassFactory} interface.

```

```

*

```

```

* @author Thomas Morgner.

```

```

*/

```

```

public abstract class ClassFactoryImpl implements ClassFactory {

```

```

    /** Storage for the classes. */

```

```

    private HashMap classes;

```

```

    /** A class comparator for searching the super class */

```

```

    private ClassComparator comparator;

```

```

    /** The parser/report configuration */

```

```

    private Configuration config;

```

```

    /**

```

```

     * Creates a new class factory.

```

```

     */

```

```

    public ClassFactoryImpl() {
        this.classes = new HashMap();
        this.comparator = new ClassComparator();
    }

```

```

    /**

```

```

     * Returns the class comparator used to sort the super classes of an object.

```

```

     *

```

```

     * @return the class comparator.

```

```

     */

```

```

    public ClassComparator getComparator() {
        return this.comparator;
    }

```

```

    /**

```

```

     * Returns an object-description for a class.

```

```

     *

```

```

     * @param c the class.

```

```

*
* @return An object description.
*/
public ObjectDescription getDescriptionForClass(final Class c) {
    final ObjectDescription od = (ObjectDescription) this.classes.get(c);
    if (od == null) {
        return null;
    }
    return od.getInstance();
}

/**
* Returns the most concrete object-description for the super class of a class.
*
* @param d the class.
* @param knownSuperClass a known supported superclass or null, if no superclass
* is known yet.
*
* @return The object description.
*/
public ObjectDescription getSuperClassObjectDescription
    (final Class d, ObjectDescription knownSuperClass) {

    if (d == null) {
        throw new NullPointerException("Description class must not be null.");
    }
    final Iterator iterator = this.classes.keySet().iterator();
    while (iterator.hasNext()) {
        final Class keyClass = (Class) iterator.next();
        if (keyClass.isAssignableFrom(d)) {
            final ObjectDescription od = (ObjectDescription) this.classes.get(keyClass);
            if (knownSuperClass == null) {
                knownSuperClass = od;
            }
            else {
                if (this.comparator.isComparable
                    (knownSuperClass.getObjectClass(), od.getObjectClass())) {
                    if (this.comparator.compare
                        (knownSuperClass.getObjectClass(), od.getObjectClass()) < 0) {
                        knownSuperClass = od;
                    }
                }
            }
        }
    }
    if (knownSuperClass == null) {
        return null;
    }
}

```

```

    return knownSuperClass.getInstance();
}

/**
 * Registers an object description with the factory.
 *
 * @param key the key.
 * @param od the object description.
 */
protected void registerClass(final Class key, final ObjectDescription od) {
    this.classes.put(key, od);
    if (this.config != null) {
        od.configure(this.config);
    }
}

/**
 * Returns an iterator that provides access to the registered object definitions.
 *
 * @return The iterator.
 */
public Iterator getRegisteredClasses() {
    return this.classes.keySet().iterator();
}

/**
 * Configures this factory. The configuration contains several keys and
 * their defined values. The given reference to the configuration object
 * will remain valid until the report parsing or writing ends.
 * <p>
 * The configuration contents may change during the reporting.
 *
 * @param config the configuration, never null
 */
public void configure(final Configuration config) {
    if (config == null) {
        throw new NullPointerException("The given configuration is null");
    }
    if (this.config != null) {
        // already configured ... ignored
        return;
    }

    this.config = config;
    final Iterator it = this.classes.values().iterator();
    while (it.hasNext()) {
        final ObjectDescription od = (ObjectDescription) it.next();

```

```

        od.configure(config);
    }
}

/**
 * Returns the currently set configuration or null, if none was set.
 *
 * @return the configuration.
 */
public Configuration getConfig() {
    return this.config;
}

/**
 * Tests for equality.
 *
 * @param o the object to test.
 *
 * @return A boolean.
 */
public boolean equals(final Object o) {
    if (this == o) {
        return true;
    }
    if (!(o instanceof ClassFactoryImpl)) {
        return false;
    }

    final ClassFactoryImpl classFactory = (ClassFactoryImpl) o;

    if (!this.classes.equals(classFactory.classes)) {
        return false;
    }

    return true;
}

/**
 * Returns a hash code.
 *
 * @return A hash code.
 */
public int hashCode() {
    return this.classes.hashCode();
}
}

/* =====
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```

```

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* -----
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*
* Original Author: Thomas Morgner;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* $Id: SimpleObjectFactory.java,v 1.3 2005/10/18 13:33:53 mungady Exp $
*
* Changes
* -----
* 02-Dec-2003 : Initial version
*
*/

package org.jfree.xml.util;

import java.util.HashMap;

/**
 * A simple object factory.
 */
public class SimpleObjectFactory implements ObjectFactory {

```



```

/** The object mappings. */
private HashMap objectMappings;

/** The manual object mappings. */
private HashMap manualMappings;

/** The multiplex mappings. */
private HashMap multiplexMappings;

/**
 * Creates a new instance.
 */
public SimpleObjectFactory() {
    this.objectMappings = new HashMap();
    this.manualMappings = new HashMap();
    this.multiplexMappings = new HashMap();
}

/**
 * Adds a manual mapping.
 *
 * @param mapping the mapping.
 */
public void addManualMapping(final ManualMappingDefinition mapping) {
    this.manualMappings.put(mapping.getBaseClass(), mapping);
}

/**
 * Adds a generic handler.
 *
 * @param handler the handler.
 */
public void addGenericHandler(final GenericObjectFactory handler) {
    this.objectMappings.put(handler.getBaseClass(), handler);
}

/**
 * Adds a multiplex mapping.
 *
 * @param mplex the multiplex mapping.
 */
public void addMultiplexMapping(final MultiplexMappingDefinition mplex) {
    this.multiplexMappings.put(mplex.getBaseClass(), mplex);
}

/**
 * Clears the mappings.

```

```

*/
public void clear() {
    this.objectMappings.clear();
    this.manualMappings.clear();
    this.multiplexMappings.clear();
}

/**
 * Returns a factory instance for the given class. The factory is independent
 * from all previously generated instances.
 *
 * @param c the class
 * @return the object factory.
 */
public GenericObjectFactory getFactoryForClass(final Class c) {
    final GenericObjectFactory factory = (GenericObjectFactory) this.objectMappings.get(c);
    if (factory == null) {
        return null;
    }
    return factory.getInstance();
}

/**
 * Returns the manual mapping definition for the given class, or null, if
 * not manual definition exists.
 *
 * @param c the class for which to check the existence of the definition
 * @return the manual mapping definition or null.
 */
public ManualMappingDefinition getManualMappingDefinition(final Class c) {
    return (ManualMappingDefinition) this.manualMappings.get(c);
}

/**
 * Returns the multiplex definition for the given class, or null, if no
 * such definition exists.
 *
 * @param c the class for which to check the existence of the multiplexer
 * @return the multiplexer for the class, or null if no multiplexer exists.
 */
public MultiplexMappingDefinition getMultiplexDefinition(final Class c) {
    final MultiplexMappingDefinition definition = (MultiplexMappingDefinition)
    this.multiplexMappings.get(c);
    return definition;
}

/**
 * Checks, whether a generic handler exists for the given class. This does

```

```

* not check, whether an mapping exists.
*
* @param c the class for which to check
* @return true, if an generic handler is defined, false otherwise.
*/
public boolean isGenericHandler(final Class c) {
    return this.objectMappings.containsKey(c);
}
}

```

1.379 jdbc-pool 7.0.34.wso2v1

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1.380 JDOM 1.0

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/*--

\$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp \$

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*/

package org.jdom;

/**

* An XML comment. Methods allow the user to get and set the text of the
* comment.


```

*
* @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
* @author Brett McLaughlin
* @author Jason Hunter
*/
public class Comment extends Content {

    private static final String CVS_ID =
        "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";

    /** Text of the <code>Comment</code> */
    protected String text;

    /**
     * Default, no-args constructor for implementations to use if needed.
     */
    protected Comment() {}

    /**
     * This creates the comment with the supplied text.
     *
     * @param text <code>String</code> content of comment.
     */
    public Comment(String text) {
        setText(text);
    }

    /**
     * Returns the XPath 1.0 string value of this element, which is the
     * text of this comment.
     *
     * @return the text of this comment
     */
    public String getValue() {
        return text;
    }

    /**
     * This returns the textual data within the <code>Comment</code>.
     *
     * @return <code>String</code> - text of comment.
     */
    public String getText() {
        return text;
    }

    /**

```

```

* This will set the value of the <code>Comment</code>.
*
* @param text <code>String</code> text for comment.
* @return <code>Comment</code> - this Comment modified.
* @throws IllegalArgumentException if the given text is illegal for a
*     Comment.
*/
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalArgumentException(text, "comment", reason);
    }

    this.text = text;
    return this;
}

/**
* This returns a <code>String</code> representation of the
* <code>Comment</code>, suitable for debugging. If the XML
* representation of the <code>Comment</code> is desired,
* { @link org.jdom.output.XMLOutputter#outputString(Comment) }
* should be used.
*
* @return <code>String</code> - information about the
*     <code>Attribute</code>
*/
public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}
}

```

1.381 Jericho-html 2.4

1.381.1 Available under license :

```

// Jericho HTML Parser - Java based library for analysing and manipulating HTML
// Version 2.4
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```

```

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package au.id.jericho.lib.html;

import java.util.*;

/**
 * Provides a generic implementation of the abstract {@link StartTagType} class based on the most common start
 * tag behaviour.
 * <p>
 * This class is only of interest to users who wish to create <a href="TagType.html#Custom">custom tag types</a>.
 * <p>
 * The only external difference between this class and its abstract superclass {@link StartTagType} is that it provides
 * a default
 * implementation of the {@link #constructTagAt(Source, int pos)} method.
 * <p>
 * Most of the <a href="Tag.html#Predefined">predefined</a> start tag types are implemented using this class or a
 * subclass of it.
 *
 * @see EndTagTypeGenericImplementation
 */
public class StartTagTypeGenericImplementation extends StartTagType {
    final boolean nameCharAfterPrefixAllowed;

    /**
     * Constructs a new <code>StartTagTypeGenericImplementation</code> object with the specified properties.
     * <br /><a href="TagType.html#ImplementationAssistance">implementation assistance</a> method
     * <p>
     * This is equivalent to calling
     * <br /><code>new &nbsp;</code>{@link
     #StartTagTypeGenericImplementation(String,String,String,EndTagType,boolean,boolean,boolean)
     StartTagTypeGenericImplementation}<code>(description,startDelimiter,closingDelimiter,correspondingEndTagType
     e,isServerTag,false,false)</code>.
     *
     * @param description a {@linkplain #getDescription()} description} of the new start tag type useful for debugging
     purposes.
     * @param startDelimiter the {@linkplain #getStartDelimiter()} start delimiter} of the new start tag type.

```

```

* @param closingDelimiter the { @linkplain #getClosingDelimiter() closing delimiter } of the new start tag type.
* @param correspondingEndTagType the { @linkplain #getCorrespondingEndTagType() corresponding end tag
type } of the new start tag type.
* @param isServerTag indicates whether the new start tag type is a { @linkplain #isServerTag() server tag }.
*/
protected StartTagTypeGenericImplementation(final String description, final String startDelimiter, final String
closingDelimiter, final EndTagType correspondingEndTagType, final boolean isServerTag) {
    this(description,startDelimiter,closingDelimiter,correspondingEndTagType,isServerTag,false,false);
}

/**
* Constructs a new <code>StartTagTypeGenericImplementation</code> object with the specified properties.
* <br /><a href="TagType.html#ImplementationAssistance">implementation assistance</a> method
*
* @param description a { @linkplain #getDescription() description } of the new start tag type useful for debugging
purposes.
* @param startDelimiter the { @linkplain #getStartDelimiter() start delimiter } of the new start tag type.
* @param closingDelimiter the { @linkplain #getClosingDelimiter() closing delimiter } of the new start tag type.
* @param correspondingEndTagType the { @linkplain #getCorrespondingEndTagType() corresponding end tag
type } of the new start tag type.
* @param isServerTag indicates whether the new start tag type is a { @linkplain #isServerTag() server tag }.
* @param hasAttributes indicates whether the new start tag type { @linkplain #hasAttributes() has attributes }.
* @param isNameAfterPrefixRequired indicates whether a { @linkplain #isNameAfterPrefixRequired() name is
required after the prefix }.
*/
protected StartTagTypeGenericImplementation(final String description, final String startDelimiter, final String
closingDelimiter, final EndTagType correspondingEndTagType, final boolean isServerTag, final boolean
hasAttributes, final boolean isNameAfterPrefixRequired) {
    super(description,startDelimiter,closingDelimiter,correspondingEndTagType,isServerTag,hasAttributes,isNameAfte
rPrefixRequired);
    nameCharAfterPrefixAllowed=(getNamePrefix().length()==0 ||
!Character.isLetter(getNamePrefix().charAt(getNamePrefix().length()-1)));
}

/**
* Constructs a tag of this type at the specified position in the specified source document if it matches all of the
required features.
* <br /><a href="TagType.html#DefaultImplementation">default implementation</a> method
* <p>
* This default implementation performs the following steps:
* <ol class="Separated">
* <li>
* If a { @linkplain #isNameAfterPrefixRequired() name is required after the prefix }, search for a valid
* { @linkplain Tag#isXMLName(CharSequence) XML tag name } directly after the
* { @linkplain #getNamePrefix() name prefix } using the { @link Source#findNameEnd(int pos) } method.
* If one is found, set the { @linkplain Tag#getName() name } to include it, otherwise return <code>null</code>.
* <li>
* If the last character of the { @linkplain #getNamePrefix() name prefix } is a letter

```

- * (indicating that the prefix includes the full { @linkplain Tag#getName() name } of the tag),
- * and the character following the prefix in the source text is also a letter
- * or any other valid { @linkplain Tag#isXMLNameChar(char) XML name character },
- * return `null`.
- *
Example: the source text "`<?xml ?>`" should not be recognised as an
- * { @linkplain #XML_PROCESSING_INSTRUCTION XML processing instruction }, which has the prefix "`<?xml`".
- *
- * If the tag type { @linkplain #hasAttributes() has attributes }, call
- * { @link #parseAttributes(Source,int,String) parseAttributes(source,pos,name) } to parse them.
- * Return `null` if too many errors occur while parsing the attributes.
- *
- * Find the { @linkplain Tag#getEnd() end } of the tag using the { @link #findEnd(Source, int pos) } method,
- * where `pos` is either the end of the { @linkplain StartTag#getAttributes() attributes } segment or the end of the
- * { @linkplain Tag#getName() name } depending on whether the tag type { @linkplain #hasAttributes() has attributes }.
- * Return `null` if the end of the tag can not be found.
- *
- * Construct the { @link StartTag } object using the
- * { @link #constructStartTag(Source,int,int,String,Attributes) constructStartTag(Source, int pos, int end, String name, Attributes) }
- * method with the argument values collected over the previous steps.
- *
- *
- * See { @link TagType#constructTagAt(Source, int pos) } for more important information about this method.
- *
- * @param source the { @link Source } document.
- * @param pos the position in the source document.
- * @return a tag of this type at the specified position in the specified source document if it meets all of the required features, or `null` if it does not meet the criteria.

```

*/
protected Tag constructTagAt(final Source source, final int pos) {
    final ParseText parseText=source.getParseText();
    final int nameBegin=pos+1;
    String name=getNamePrefix();
    int nameEnd=nameBegin+getNamePrefix().length();
    if (isNameAfterPrefixRequired()) {
        final int extendedNameEnd=source.findNameEnd(nameEnd);
        if (extendedNameEnd==-1) return null;
        name=parseText.substring(nameBegin,extendedNameEnd);
        nameEnd=extendedNameEnd;
    } else if (!nameCharAfterPrefixAllowed && Tag.isXMLNameChar(parseText.charAt(nameEnd))) {
        return null;
    }
    int end;
    Attributes attributes=null;
    if (hasAttributes()) {

```

```

// it is necessary to get the attributes so that we can be sure that the search on the closing delimiter doesn't pick up
// anything from the attribute values, which can legally contain ">" characters.
attributes=parseAttributes(source,pos,name);
if (attributes==null) return null; // happens if attributes not properly formed
end=findEnd(source,attributes.getEnd()); // should always return a valid end
} else {
end=findEnd(source,nameEnd);
if (end==-1) {
if (source.logger.isInfoEnabled()) source.logger.info(source.getRowColumnVector(pos).appendTo(new
StringBuffer(200).append("StartTag ").append(name).append(" at ").append(" not recognised as type
").append(getDescription()).append(" because it has no closing delimiter").toString());
return null;
}
}
return constructStartTag(source,pos,end,name,attributes);
}

/**
 * Finds the { @linkplain Tag#getEnd() end} of a tag of this type, starting from the specified position in the specified
source document.
 * <br /><a href="TagType.html#ImplementationAssistance">implementation assistance</a> method
 * <p>
 * This default implementation simply searches for the first occurrence of the
 * { @linkplain #getClosingDelimiter() closing delimiter} after the specified position, and returns the position
immediately
 * after the end of it.
 * <p>
 * If the closing delimiter is not found, the value <code>-1</code> is returned.
 *
 * @param source the { @link Source} document.
 * @param pos the position in the source document.
 * @return the { @linkplain Tag#getEnd() end} of a tag of this type, starting from the specified position in the
specified source document, or <code>-1</code> if the end of the tag can not be found.
 */
protected int findEnd(final Source source, final int pos) {
final int delimiterBegin=source.getParseText().indexOf(getClosingDelimiter(),pos);
return (delimiterBegin==-1 ? -1 : delimiterBegin+getClosingDelimiter().length());
}
}

// Jericho HTML Parser - Java based library for analysing and manipulating HTML
// Version 2.4
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// http://jerichohtml.sourceforge.net/
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package au.id.jericho.lib.html;

import java.util.*;

/**
 * Provides a generic implementation of the abstract {@link EndTagType} class based on the most common end tag
 * behaviour.
 * <p>
 * This class is only of interest to users who wish to create <a href="TagType.html#Custom">custom tag types</a>.
 * <p>
 * The differences between this class and its abstract superclass {@link EndTagType} are:
 * <ul>
 * <li>The introduction of the {@link #isStatic() IsStatic} property.
 * <li>The {@link #constructTagAt(Source, int pos)} method has a default implementation.
 * </ul>
 * <p>
 * Most of the <a href="Tag.html#Predefined">predefined</a> end tag types are implemented using this class or a
 * subclass of it.
 *
 * @see StartTagTypeGenericImplementation
 */
public class EndTagTypeGenericImplementation extends EndTagType {
    private final String staticString;

    /**
     * Constructs a new <code>EndTagTypeGenericImplementation</code> object based on the specified properties.
     * <br /><a href="TagType.html#ImplementationAssistance">implementation assistance</a> method
     * <p>
     * The purpose of the <code>isStatic</code> parameter is explained in the {@link #isStatic() IsStatic} property
     * description.
     *
     * @param description a {@linkplain #getDescription() description} of the new end tag type useful for debugging
     * purposes.
     * @param startDelimiter the {@linkplain #getStartDelimiter() start delimiter} of the new end tag type.
     * @param closingDelimiter the {@linkplain #getClosingDelimiter() closing delimiter} of the new end tag type.
     * @param isServerTag indicates whether the new end tag type is a {@linkplain #isServerTag() server tag}.
     * @param isStatic determines whether the end tag text {@linkplain #isStatic() is static}.

```

```

*/
protected EndTagTypeGenericImplementation(final String description, final String startDelimiter, final String
closingDelimiter, final boolean isServerTag, final boolean isStatic) {
    super(description,startDelimiter,closingDelimiter,isServerTag);
    staticString=isStatic ? (startDelimiter+closingDelimiter) : null;
}

/**
 * Indicates whether the { @linkplain #generateHTML(String) end tag text } is static.
 * <br />( <a href="TagType.html#Property">property</a> and <a
href="#ImplementationAssistance">implementation assistance</a> method)
 * <p>
 * The purpose of this property is to determine the behaviour of the { @link #generateHTML(String startTagName)}
method.
 * <p>
 * If this property is <code>true</code>, the { @linkplain #generateHTML(String) end tag text } is constant for all
tags of this type.
 * <p>
 * If this property is <code>false</code>, the { @linkplain #generateHTML(String) end tag text } includes the
 * { @linkplain StartTag#getName() name } of the { @linkplain #getCorrespondingStartTagType corresponding }
 * { @linkplain StartTag start tag }.
 * <p>
 * { @link MasonTagTypes#MASON_COMPONENT_CALLED_WITH_CONTENT_END } is the only <a
href="TagType.html#Predefined">predefined</a> end tag
 * for which this property is <code>true</code>.
 * All tags of this type have the constant tag text "<code>&lt;/&gt;&gt;</code>".
 *
 * @return <code>true</code> if the { @linkplain #generateHTML(String) end tag text } is static, otherwise
<code>false</code>.
*/
protected final boolean isStatic() {
    return staticString!=null;
}

/**
 * Generates the HTML text of an { @linkplain EndTag end tag } of this type given the { @linkplain
StartTag#getName() name } of a { @linkplain #getCorrespondingStartTagType() corresponding } { @linkplain
StartTag start tag }.
 * <br />( <a href="TagType.html#Property">property</a> method)
 * <p>
 * This implementation overrides the default implementation in { @link EndTagType#generateHTML(String
startTagName)}.
 * <p>
 * If the value of the { @link #isStatic() IsStatic } property is <code>false</code>, it returns the same string
 * as the default implementation:<br />
 * { @link #getStartDelimiter() getStartTagDelimiter()}<code>+startTagName+</code>{ @link
#getClosingDelimiter() getClosingDelimiter()}.
 * <p>

```



```

* If the value of the { @link #isStatic() IsStatic } property is <code>true</code>, it returns the cached static
string:<br />
* { @link #getStartDelimiter() getStartDelimiter()}<code>+</code>{ @link #getClosingDelimiter()
getClosingDelimiter()}.
*
* @param startTagName the { @linkplain StartTag#getName() name } of a { @linkplain
#getCorrespondingStartTagType() corresponding } { @linkplain StartTag start tag }.
* @return the HTML text of an { @linkplain EndTag end tag } of this type given the { @linkplain
StartTag#getName() name } of a { @linkplain #getCorrespondingStartTagType() corresponding } { @linkplain
StartTag start tag }.
*/
public String generateHTML(final String startTagName) {
    return staticString!=null ? staticString : START_DELIMITER_PREFIX+startTagName+getClosingDelimiter();
}

/**
* Constructs a tag of this type at the specified position in the specified source document if it matches all of the
required features.
* <br /><a href="TagType.html#DefaultImplementation">default implementation</a> method)
* <p>
* This default implementation ensures that the source text matches the possible output of the
* { @link #generateHTML(String startTagName) } method.
* <p>
* If the value of the { @link #isStatic() IsStatic } property is <code>false</code>, this implementation ensures that
the
* source text matches the expression:<br />
* { @link #getStartDelimiter() getStartTagDelimiter()}<code>+</code><i>name</i><code>+</code>{ @link
#getClosingDelimiter() getClosingDelimiter()}<br />
* where <i>name</i> is a valid { @linkplain Tag#isXMLName(CharSequence) XML tag name }.
* The { @linkplain Tag#getName() name } of the constructed end tag becomes { @link #getNamePrefix()
getNamePrefix()}<code>+</code><i>name</i><code>+</code>.
* <p>
* If the value of the { @link #isStatic() IsStatic } property is <code>true</code>, this implementation ensures that
the
* source text matches the static expression:<br />
* { @link #getStartDelimiter() getStartTagDelimiter()}<code>+</code>{ @link #getClosingDelimiter()
getClosingDelimiter()}<br />
* The { @linkplain Tag#getName() name } of the constructed end tag is the value of the { @link #getNamePrefix()
getNamePrefix()} method.
* <p>
* See { @link TagType#constructTagAt(Source, int pos) } for more important information about this method.
*
* @param source the { @link Source } document.
* @param pos the position in the source document.
* @return a tag of this type at the specified position in the specified source document if it meets all of the required
features, or <code>null</code> if it does not meet the criteria.
*/
protected Tag constructTagAt(final Source source, final int pos) {

```

```

final ParseText parseText=source.getParseText();
final int nameBegin=pos+START_DELIMITER_PREFIX.length();
String name=null;
final int startDelimiterEnd=pos+getStartDelimiter().length();
int end=-1;
if (isStatic()) {
    name=getNamePrefix();
    if (!parseText.containsAt(getClosingDelimiter(),startDelimiterEnd)) {
        if (source.logger.isInfoEnabled()) source.logger.info(source.getRowColumnVector(pos).appendTo(new
StringBuffer(200).append("EndTag of expected format ").append(staticString).append(" at ").append(" not
recognised as type ").append(getDescription()).append(" because it is missing the closing delimiter").toString());
        return null;
    }
    end=startDelimiterEnd+getClosingDelimiter().length();
} else {
    final int nameEnd=source.findNameEnd(startDelimiterEnd);
    if (nameEnd===-1) return null;
    name=parseText.substring(nameBegin,nameEnd);
    if (!parseText.containsAt(getClosingDelimiter(),nameEnd)) {
        if (source.logger.isInfoEnabled()) source.logger.info(source.getRowColumnVector(pos).appendTo(new
StringBuffer(200).append("EndTag ").append(name).append(" at ").append(" not recognised as type
").append(getDescription()).append(" because its closing delimiter does not immediately follow its
name").toString());
        return null;
    }
    end=nameEnd+getClosingDelimiter().length();
}
return constructEndTag(source,pos,end,name);
}
}

```

1.382 jersey-core-client 2.6

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The original version of this class was published in a JavaWorld article by Steven Brandt:

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The following files contain material that was copyrighted by SUN:

com/lowagie/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)

com/lowagie/text/pdf/codec/BmpImage.java (first appearance in iText: 2003-06-20)

com/lowagie/text/pdf/codec/PngImage.java (first appearance in iText: 2003-04-25)

com/lowagie/text/pdf/codec/TIFFDirectory.java (first appearance in iText: 2003-04-09)

com/lowagie/text/pdf/codec/TIFFFaxDecoder.java (first appearance in iText: 2003-04-09)

com/lowagie/text/pdf/codec/TIFFField.java (first appearance in iText: 2003-04-09)

com/lowagie/text/pdf/codec/TIFFLZWDecoder.java (first appearance in iText: 2003-04-09)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com)

writes: "This code is under a BSD license and supersedes the older codec packages

on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order.
The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI.
As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

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```
*/
```

```
package com.jcraft.jsch;
```

```
import java.util.Vector;
```

```
class UserAuthPublicKey extends UserAuth{
```

```
public boolean start(Session session) throws Exception{  
    super.start(session);
```

```
    Vector identities=session.getIdentityRepository().getIdentities();
```

```
    byte[] passphrase=null;
```

```
    byte[] _username=null;
```

```
    int command;
```

```
    synchronized(identities){  
        if(identities.size()<=0){
```



```

    return false;
}

_username=Util.str2byte(username);

for(int i=0; i<identities.size(); i++){

    if(session.auth_failures >= session.max_auth_tries){
        return false;
    }

    Identity identity=(Identity)(identities.elementAt(i));
    byte[] pubkeyblob=identity.getPublicKeyBlob();

//System.err.println("UserAuthPublicKey: "+identity+" "+pubkeyblob);

    if(pubkeyblob!=null){
        // send
        // byte   SSH_MSG_USERAUTH_REQUEST(50)
        // string  user name
        // string  service name ("ssh-connection")
        // string  "publickey"
        // boolean FALSE
        // string  plaintext password (ISO-10646 UTF-8)
        packet.reset();
        buf.putByte((byte)SSH_MSG_USERAUTH_REQUEST);
        buf.putString(_username);
        buf.putString(Util.str2byte("ssh-connection"));
        buf.putString(Util.str2byte("publickey"));
        buf.putByte((byte)0);
        buf.putString(Util.str2byte(identity.getAlgName()));
        buf.putString(pubkeyblob);
        session.write(packet);

    loop1:
    while(true){
        buf=session.read(buf);
        command=buf.getCommand()&0xff;

        if(command==SSH_MSG_USERAUTH_PK_OK){
            break;
        }
        else if(command==SSH_MSG_USERAUTH_FAILURE){
            break;
        }
        else if(command==SSH_MSG_USERAUTH_BANNER){
            buf.getInt(); buf.getByte(); buf.getByte();
            byte[] _message=buf.getString();

```

```

    byte[] lang=buf.getString();
    String message=Util.byte2str(_message);
    if(userinfo!=null){
        userinfo.showMessage(message);
    }
    continue loop1;
}
else{
//System.err.println("USERAUTH fail ("+command+"");
//throw new JSchException("USERAUTH fail ("+command+"");
    break;
}
}

if(command!=SSH_MSG_USERAUTH_PK_OK){
    continue;
}
}

//System.err.println("UserAuthPublicKey: identity.isEncrypted()="+identity.isEncrypted());

int count=5;
while(true){
    if((identity.isEncrypted() && passphrase==null)){
        if(userinfo==null) throw new JSchException("USERAUTH fail");
        if(identity.isEncrypted() &&
            !userinfo.promptPassphrase("Passphrase for "+identity.getName())){
            throw new JSchAuthCancelException("publickey");
            //throw new JSchException("USERAUTH cancel");
            //break;
        }
        String _passphrase=userinfo.getPassphrase();
        if(_passphrase!=null){
            passphrase=Util.str2byte(_passphrase);
        }
    }

    if(!identity.isEncrypted() || passphrase!=null){
        if(identity.setPassphrase(passphrase))
            break;
    }
    Util.bzero(passphrase);
    passphrase=null;
    count--;
    if(count==0)break;
}

Util.bzero(passphrase);

```

```

    passphrase=null;
//System.err.println("UserAuthPublicKey: identity.isEncrypted()="+identity.isEncrypted());

    if(identity.isEncrypted()) continue;
    if(pubkeyblob==null) pubkeyblob=identity.getPublicKeyBlob();

//System.err.println("UserAuthPublicKey: pubkeyblob="+pubkeyblob);

    if(pubkeyblob==null) continue;

    // send
    // byte  SSH_MSG_USERAUTH_REQUEST(50)
    // string  user name
    // string  service name ("ssh-connection")
    // string  "publickey"
    // boolean TRUE
    // string  plaintext password (ISO-10646 UTF-8)
    packet.reset();
    buf.putByte((byte)SSH_MSG_USERAUTH_REQUEST);
    buf.putString(_username);
    buf.putString(Util.str2byte("ssh-connection"));
    buf.putString(Util.str2byte("publickey"));
    buf.putByte((byte)1);
    buf.putString(Util.str2byte(identity.getAlgName()));
    buf.putString(pubkeyblob);

//    byte[] tmp=new byte[buf.index-5];
//    System.arraycopy(buf.buffer, 5, tmp, 0, tmp.length);
//    buf.putString(signature);

    byte[] sid=session.getSessionId();
    int sidlen=sid.length;
    byte[] tmp=new byte[4+sidlen+buf.index-5];
    tmp[0]=(byte)(sidlen>>>24);
    tmp[1]=(byte)(sidlen>>>16);
    tmp[2]=(byte)(sidlen>>>8);
    tmp[3]=(byte)(sidlen);
    System.arraycopy(sid, 0, tmp, 4, sidlen);
    System.arraycopy(buf.buffer, 5, tmp, 4+sidlen, buf.index-5);
    byte[] signature=identity.getSignature(tmp);
    if(signature==null){ // for example, too long key length.
        break;
    }
    buf.putString(signature);
    session.write(packet);

    loop2:
    while(true){

```

```

buf=session.read(buf);
command=buf.getCommand()&0xff;

if(command==SSH_MSG_USERAUTH_SUCCESS){
    return true;
}
else if(command==SSH_MSG_USERAUTH_BANNER){
    buf.getInt(); buf.getByte(); buf.getByte();
    byte[] _message=buf.getString();
    byte[] lang=buf.getString();
    String message=Util.byte2str(_message);
    if(userinfo!=null){
        userinfo.showMessage(message);
    }
    continue loop2;
}
else if(command==SSH_MSG_USERAUTH_FAILURE){
    buf.getInt(); buf.getByte(); buf.getByte();
    byte[] foo=buf.getString();
    int partial_success=buf.getByte();
//System.err.println(new String(foo)+
//    " partial_success:"+(partial_success!=0));
    if(partial_success!=0){
        throw new JSchPartialAuthException(Util.byte2str(foo));
    }
    session.auth_failures++;
    break;
}
//System.err.println("USERAUTH fail ("+command+"");
//throw new JSchException("USERAUTH fail ("+command+"");
break;
}
}
}
return false;
}
}

```

1.403 json 2.0.0.wso2v1

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1.414 jsr311-api 1.0

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1.415 jsr94 jsr94_5.0.1.wso2v1

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```

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```

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```
*/
```

```
import java.util.List;
```

```
import java.util.Map;
```

```

import javax.rules.RuleExecutionSetNotFoundException;
import javax.rules.RuleRuntime;
import javax.rules.RuleSession;
import javax.rules.RuleSessionCreateException;
import javax.rules.RuleSessionTypeUnsupportedException;

import org.drools.jsr94.rules.repository.RuleExecutionSetRepository;
import org.drools.jsr94.rules.repository.RuleExecutionSetRepositoryException;

/**
 * The Drools implementation of the RuleRuntime interface which
 * is the access point for runtime execution of RuleExecutionSets.
 * It provides methods to create RuleSession implementation as
 * well as methods to retrieve RuleExecutionSets that have been
 * previously registered using the RuleAdministrator. 

The
 * RuleRuntime should be accessed through the
 * RuleServiceProvider. An instance of the
 * RuleRuntime can be retrieved by calling: 

* RuleServiceProvider ruleServiceProvider =
 *   RuleServiceProvider.newInstance();  

 * RuleRuntime ruleRuntime = ruleServiceProvider.getRuleRuntime();
 * 
 * 

Note: the release method must be called on the RuleSession
 * to clean up all resources used by the RuleSession.
 *
 * @see RuleRuntime
 * @author N. Alex Rupp (n_alex <at>codehaus.org)
 */
public class RuleRuntimeImpl
    implements
    RuleRuntime {
    private static final long    serialVersionUID = 400L;

    private RuleExecutionSetRepository repository;

    /**
     * Create a new RuleRuntimeImpl.
     */
    public RuleRuntimeImpl(final RuleExecutionSetRepository repository) {
        this.repository = repository;
        // no special initialization required
    }

    /**
     * Creates a RuleSession implementation using the supplied
     * Drools-specific rule execution set registration URI.
     */


```

```

* @param uri
*     the URI for the <code>RuleExecutionSet</code>
* @param properties
*     additional properties used to create the
*     <code>RuleSession</code> implementation.
* @param ruleSessionType
*     the type of rule session to create.
*
* @throws RuleSessionTypeUnsupportedException
*     if the ruleSessionType is not supported by Drools or the
*     RuleExecutionSet
* @throws RuleExecutionSetNotFoundException
*     if the URI could not be resolved into a
*     <code>RuleExecutionSet</code>
*
* @return The created <code>RuleSession</code>.
*/
public RuleSession createRuleSession(final String uri,
                                     final Map properties,
                                     final int ruleSessionType)
throws RuleSessionTypeUnsupportedException,
       RuleSessionCreateException,
       RuleExecutionSetNotFoundException {

    if ( ruleSessionType == RuleRuntime.STATELESS_SESSION_TYPE ) {
        final StatelessRuleSessionImpl session = new StatelessRuleSessionImpl( uri,
                                                                                properties,
                                                                                this.repository );

        return session;
    } else if ( ruleSessionType == RuleRuntime.STATEFUL_SESSION_TYPE ) {
        final StatefulRuleSessionImpl session = new StatefulRuleSessionImpl( uri,
                                                                                properties,
                                                                                this.repository );

        return session;
    }

    throw new RuleSessionTypeUnsupportedException( "invalid session type: " + ruleSessionType );
}

/**
* Retrieves a <code>List</code> of the URIs that currently have
* <code>RuleExecutionSet</code>s associated with them. An empty list is
* returned if there are no associations.
*
* @return a <code>List</code> of <code>String</code>s (URIs)
*/
public List getRegistrations() {
    try {

```

```

    return this.repository.getRegistrations();
} catch (RuleExecutionSetRepositoryException e) {
    String s = "Error while retrieving list of registrations";
    throw new RuntimeException(s, e);
}
}
}
}
package org.drools.jsr94.rules.admin;

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 */

import java.util.Map;

import javax.rules.admin.LocalRuleExecutionSetProvider;
import javax.rules.admin.RuleAdministrator;
import javax.rules.admin.RuleExecutionSet;
import javax.rules.admin.RuleExecutionSetDeregistrationException;
import javax.rules.admin.RuleExecutionSetProvider;
import javax.rules.admin.RuleExecutionSetRegisterException;

import org.drools.jsr94.rules.repository.RuleExecutionSetRepository;
import org.drools.jsr94.rules.repository.RuleExecutionSetRepositoryException;

/**
 * The Drools implementation of the RuleAdministrator interface
 * which is used by rule execution set administrators to load rule execution
 * sets from external sources and create a RuleExecutionSet
 * runtime object. 

The RuleAdministrator should be accessed
 * by calling: 
 * RuleServiceProvider ruleServiceProvider =
 *     RuleServiceProvider.newInstance();
 * RuleAdministrator ruleAdministration =
 *     ruleServiceProvider.getRuleAdministrator();
 * 
 */


```

```

* <p/> In an additional step the administrator may also choose to bind the
* <code>RuleExecutionSet</code> instance to a URI so that it is globally
* accessible and <code>RuleSession</code>s can be created for the
* <code>RuleExecutionSet</code> through the RuleRuntime.
*
* @see RuleAdministrator
*
* @author N. Alex Rupp (n_alex <at>codehaus.org)
* @author <a href="mailto:thomas.diesler@softcon-itec.de">thomas diesler </a>
*/
public class RuleAdministratorImpl
    implements
    RuleAdministrator, java.io.Serializable {
    private RuleExecutionSetRepository repository;

    /** Default constructor. */
    public RuleAdministratorImpl(final RuleExecutionSetRepository repository) {
        super();
        this.repository = repository;
    }

    /**
     * Returns a <code>RuleExecutionSetProvider</code> implementation.
     *
     * @param properties
     *     additional properties
     *
     * @return The created <code>RuleExecutionSetProvider</code>.
     */
    public RuleExecutionSetProvider getRuleExecutionSetProvider(final Map properties) {
        return new RuleExecutionSetProviderImpl();
    }

    /**
     * Returns a <code>LocalRuleExecutionSetProvider</code> implementation.
     *
     * Returns a <code>LocalRuleExecutionSetProvider</code> implementation or
     * null if this implementation does not support creating a
     * <code>RuleExecutionSet</code> from non-serializable resources.
     *
     * @param properties
     *     additional properties
     *
     * @return The created <code>LocalRuleExecutionSetProvider</code>.
     */
    public LocalRuleExecutionSetProvider getLocalRuleExecutionSetProvider(final Map properties) {
        return new LocalRuleExecutionSetProviderImpl();
    }
}

```



```

/**
 * Registers a RuleExecutionSet and associates it with a
 * given URI. Once a RuleExecutionSet has been registered it
 * is accessible to runtime clients through the RuleRuntime.
 * If a RuleExecutionSet has already been associated with the
 * URI it should be deregistered (as if
 * deregisterRuleExecutionSet had been called) and the URI
 * should be associated with the new RuleExecutionSet.
 *
 * @param bindUri
 *     the URI to associate with the RuleExecutionSet.
 * @param set
 *     the RuleExecutionSet to associate with the URI
 * @param properties
 *     additional properties used to perform the registration
 *
 * @throws RuleExecutionSetRegisterException
 *     if an error occurred that prevented registration
 */
public void registerRuleExecutionSet(final String bindUri,
                                   final RuleExecutionSet set,
                                   final Map properties)
throws RuleExecutionSetRegisterException {

    // Note: an existing RuleExecutionSet is simply replaced
    repository.registerRuleExecutionSet(bindUri, set, properties);
}

/**
 * Unregisters a previously registered RuleExecutionSet from
 * a URI.
 *
 * @param bindUri
 *     the URI to disassociate with the RuleExecutionSet.
 * @param properties
 *     additional properties used to perform the deregistration
 *
 * @throws RuleExecutionSetDeregistrationException
 *     if an error occurred that prevented unregistration
 */
public void deregisterRuleExecutionSet(final String bindUri,
                                       final Map properties)
throws RuleExecutionSetDeregistrationException {

    try {
        if ( this.repository.getRuleExecutionSet(bindUri, properties) == null ) {
            throw new RuleExecutionSetDeregistrationException( "no execution set bound to: " + bindUri );
        }
    }
}

```

```

    }
    } catch (RuleExecutionSetRepositoryException e) {
        String s = "Error while retrieving rule execution set bound to: " + bindUri;
        throw new RuleExecutionSetDeregistrationException(s, e);
    }

    repository.unregisterRuleExecutionSet(bindUri, properties);
}
}
package org.drools.jsr94.rules.admin;

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 */

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

import javax.rules.ObjectFilter;
import javax.rules.admin.RuleExecutionSet;

import org.drools.IntegrationException;
import org.drools.RuleBase;
import org.drools.RuleBaseConfiguration;
import org.drools.RuleIntegrationException;
import org.drools.SessionConfiguration;
import org.drools.StatefulSession;
import org.drools.StatelessSession;
import org.drools.jsr94.rules.Constants;
import org.drools.jsr94.rules.Jsr94FactHandleFactory;
import org.drools.rule.Package;
import org.drools.rule.Rule;

/**

```

```

* The Drools implementation of the RuleExecutionSet interface
* which defines a named set of executable Rule instances. A
* RuleExecutionSet can be executed by a rules engine via the
* RuleSession interface.
*
* @see RuleExecutionSet
*
* @author N. Alex Rupp (n_alex <at>codehaus.org)
* @author <a href="mailto:thomas.diesler@softcon-itec.de">thomas diesler </a>
* @author <a href="mailto:michael.frandsen@syngenio.de">michael frandsen </a>
*/

```

```

public class RuleExecutionSetImpl
implements
RuleExecutionSet {
/**
*
*/
private static final long serialVersionUID = 400L;

/**
* A description of this rule execution set or null if no
* description is specified.
*/
private String      description;

/**
* The default ObjectFilter class name
* associated with this rule execution set.
*/
private String      defaultObjectFilterClassName;

/** A Map of user-defined and Drools-defined properties. */
private Map         properties;

/**
* The RuleBase associated with this
* RuleExecutionSet.
*/
private RuleBase    ruleBase;

/**
* The Package associated with this
* RuleExecutionSet.
*/
private Package     pkg;

/**
* The default ObjectFilter class name

```

```

* associated with this rule execution set.
*/
private ObjectFilter    objectFilter;

/**
 * Instances of this class should be obtained from the
 * <code>LocalRuleExecutionSetProviderImpl</code>. Each
 * <code>RuleExecutionSetImpl</code> corresponds with an
 * <code>org.drools.Package</code> object.
 *
 * @param package The <code>Package</code> to associate with this
 *    <code>RuleExecutionSet</code>.
 * @param properties A <code>Map</code> of user-defined and
 *    Drools-defined properties. May be <code>null</code>.
 *
 * @throws RuleIntegrationException if an error occurs integrating
 *    a <code>Rule</code> or <code>Package</code>
 *    into the <code>RuleBase</code>
 * @throws RuleSetIntegrationException if an error occurs integrating
 *    a <code>Rule</code> or <code>Package</code>
 *    into the <code>RuleBase</code>
 */
RuleExecutionSetImpl(final Package pkg,
                    final Map properties) throws IntegrationException {
    if ( null == properties ) {
        this.properties = new HashMap();
    } else {
        this.properties = properties;
    }
    this.pkg = pkg;
    this.description = pkg.getName();//..getDocumentation( );

    RuleBaseConfiguration config = ( RuleBaseConfiguration ) this.properties.get(
Constants.RES_RULEBASE_CONFIG );
    org.drools.reteoo.ReteooRuleBase ruleBase;
    if ( config != null ) {
        ruleBase = new org.drools.reteoo.ReteooRuleBase( null,
                                                    config,
                                                    new Jsr94FactHandleFactory( ) );
    } else {
        ruleBase = new org.drools.reteoo.ReteooRuleBase( null,
                                                    new Jsr94FactHandleFactory( ) );
    }
    ruleBase.addPackage( pkg );

    this.ruleBase = ruleBase;
}

```

```

/**
 * Get an instance of the default filter, or null.
 *
 * @return An instance of the default filter, or null.
 */
public synchronized ObjectFilter getObjectFilter() {
    if ( this.objectFilter != null ) {
        return this.objectFilter;
    }

    if ( this.defaultObjectFilterClassName != null ) {
        ClassLoader cl = Thread.currentThread().getContextClassLoader();

        if ( cl == null ) {
            cl = RuleExecutionSetImpl.class.getClassLoader();
        }

        try {
            final Class filterClass = cl.loadClass( this.defaultObjectFilterClassName );
            this.objectFilter = (ObjectFilter) filterClass.newInstance();
        } catch ( final ClassNotFoundException e ) {
            throw new RuntimeException( e.toString() );
        } catch ( final InstantiationException e ) {
            throw new RuntimeException( e.toString() );
        } catch ( final IllegalAccessException e ) {
            throw new RuntimeException( e.toString() );
        }
    }

    return this.objectFilter;
}

/**
 * Returns a new WorkingMemory object.
 *
 * @return A new WorkingMemory object.
 */
public StatefulSession newStatefulSession(SessionConfiguration conf) {
    return this.ruleBase.newStatefulSession(conf, null);
}

/**
 * Returns a new WorkingMemory object.
 *
 * @return A new WorkingMemory object.
 */
public StatelessSession newStatelessSession() {
    return this.ruleBase.newStatelessSession();
}

```

```

}

// JSR94 interface methods start here -----

/**
 * Get the name of this rule execution set.
 *
 * @return The name of this rule execution set.
 */
public String getName() {
    return this.pkg.getName();
}

/**
 * Get a description of this rule execution set.
 *
 * @return A description of this rule execution set or null if no
 *         description is specified.
 */
public String getDescription() {
    return this.description;
}

/**
 * Get a user-defined or Drools-defined property.
 *
 * @param key the key to use to retrieve the property
 *
 * @return the value bound to the key or null
 */
public Object getProperty(final Object key) {
    return this.properties.get( key );
}

/**
 * Set a user-defined or Drools-defined property.
 *
 * @param key the key for the property value
 * @param value the value to associate with the key
 */
public void setProperty(final Object key,
                        final Object value) {
    this.properties.put( key,
                        value );
}

/**
 * Set the default ObjectFilter class. This class is

```

```

* instantiated at runtime and used to filter result objects unless
* another filter is specified using the available APIs in the runtime
* view of a rule engine.
* <p/>
* Setting the class name to null removes the default
* <code>ObjectFilter</code>.
*
* @param objectFilterClassname the default <code>ObjectFilter</code> class
*/
public void setDefaultObjectFilter(final String objectFilterClassname) {
    this.defaultObjectFilterClassName = objectFilterClassname;
}

/**
* Returns the default ObjectFilter class name
* associated with this rule execution set.
*
* @return the default ObjectFilter class name
*/
public String getDefaultObjectFilter() {
    return this.defaultObjectFilterClassName;
}

/**
* Return a list of all <code>Rule</code>s that are part of the
* <code>RuleExecutionSet</code>.
*
* @return a list of all <code>Rule</code>s that are part of the
* <code>RuleExecutionSet</code>.
*/
public List getRules() {
    final List jsr94Rules = new ArrayList();

    final Rule[] rules = (this.pkg.getRules());
    for ( int i = 0; i < rules.length; ++i ) {
        jsr94Rules.add( new RuleImpl( rules[i] ) );
    }

    return jsr94Rules;
}
}
package org.drools.jsr94.rules.admin;

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 * limitations under the License.
 */

```
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.Reader;
import java.io.Serializable;
import java.net.URL;
import java.util.Map;
```

```
import javax.rules.admin.RuleExecutionSet;
import javax.rules.admin.RuleExecutionSetCreateException;
import javax.rules.admin.RuleExecutionSetProvider;
import javax.xml.transform.Source;
import javax.xml.transform.Transformer;
import javax.xml.transform.TransformerException;
import javax.xml.transform.TransformerFactory;
import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.sax.SAXResult;
```

```
import org.drools.compiler.PackageBuilder;
import org.drools.lang.descr.PackageDescr;
import org.drools.rule.Package;
import org.drools.xml.SemanticModules;
import org.drools.xml.XmlPackageReader;
import org.w3c.dom.Element;
```

```
/**
 * The Drools implementation of the RuleExecutionSetProvider
 * interface which defines RuleExecutionSet creation methods for
 * defining RuleExecutionSets from potentially serializable
 * resources.
 *
 * @see RuleExecutionSetProvider
 *
 * @author N. Alex Rupp (n_alex <code>codehaus.org)
 * @author <a href="mailto:thomas.diesler@softcon-itec.de">thomas diesler </a>
 * @author <a href="mailto:michael.frandsen@syngenio.de">michael frandsen </a>
 */
```



```

public class RuleExecutionSetProviderImpl
    implements
    RuleExecutionSetProvider {
    /**
    * Creates a RuleExecutionSet implementation from an XML
    * Document and additional Drools-specific properties. A Drools-specific
    * rule execution set is read from the supplied XML Document.
    *
    * @param ruleExecutionSetElement the XML element that is the source of the
    *     rule execution set
    * @param properties additional properties used to create the
    *     RuleExecutionSet implementation.
    *     May be null.
    *
    * @throws RuleExecutionSetCreateException on rule execution set creation
    *     error.
    *
    * @return The created RuleExecutionSet.
    */
    public RuleExecutionSet createRuleExecutionSet(final Element ruleExecutionSetElement,
        final Map properties) throws RuleExecutionSetCreateException {
    try {
        // Prepare the DOM source
        final Source source = new DOMSource( ruleExecutionSetElement );

        final XmlPackageReader xmlPackageReader = new XmlPackageReader( new SemanticModules() );
        // Prepare the result
        final SAXResult result = new SAXResult( xmlPackageReader.getParser() );

        // Create a transformer
        final Transformer xformer = TransformerFactory.newInstance().newTransformer();

        // Traverse the DOM tree
        xformer.transform( source,
            result );

        final PackageDescr packageDescr = xmlPackageReader.getPackageDescr();

        // pre build the package
        final PackageBuilder builder = new PackageBuilder();
        builder.addPackage( packageDescr );
        final Package pkg = builder.getPackage();

        final LocalRuleExecutionSetProviderImpl localRuleExecutionSetProvider = new
    LocalRuleExecutionSetProviderImpl();
        return localRuleExecutionSetProvider.createRuleExecutionSet( pkg,
            properties );
    } catch ( final TransformerException e ) {

```

```

        throw new RuleExecutionSetCreateException( "could not create RuleExecutionSet: " + e );
    }

}

/**
 * Creates a RuleExecutionSet implementation from a
 * Drools-specific Abstract Syntax Tree (AST) representation and
 * Drools-specific properties.
 * <p/>
 * This method accepts a org.drools.RuleBase object as its
 * vendor-specific AST representation.
 *
 * @param ruleExecutionSetAst the Drools representation of a
 *     rule execution set
 * @param properties additional properties used to create the
 *     RuleExecutionSet implementation.
 *     May be null.
 *
 * @throws RuleExecutionSetCreateException on rule execution set creation
 *     error.
 *
 * @return The created RuleExecutionSet.
 */
public RuleExecutionSet createRuleExecutionSet(final Serializable ruleExecutionSetAst,
                                             final Map properties) throws RuleExecutionSetCreateException {
    if ( ruleExecutionSetAst instanceof Package ) {
        final LocalRuleExecutionSetProviderImpl localRuleExecutionSetProvider = new
LocalRuleExecutionSetProviderImpl();
        return localRuleExecutionSetProvider.createRuleExecutionSet( ruleExecutionSetAst,
                                                                    properties );
    } else {
        throw new IllegalArgumentException( "Serializable object must be " + "an instance of
org.drools.rule.RuleSet. It was " + ruleExecutionSetAst.getClass().getName() );
    }
}

/**
 * Creates a RuleExecutionSet implementation from a URI.
 * The URI is opaque to the specification and may be used to refer to the
 * file system, a database, or Drools-specific datasource.
 *
 * @param ruleExecutionSetUri the URI to load the rule execution set from
 * @param properties additional properties used to create the
 *     RuleExecutionSet implementation.
 *     May be null.
 *
 * @throws RuleExecutionSetCreateException on rule execution set creation

```

```

*     error.
* @throws IOException if an I/O error occurs while accessing the URI
*
* @return The created <code>RuleExecutionSet</code>.
*/
public RuleExecutionSet createRuleExecutionSet(final String ruleExecutionSetUri,
                                              final Map properties) throws RuleExecutionSetCreateException,
                                              IOException {
    InputStream in = null;
    try {
        final LocalRuleExecutionSetProviderImpl localRuleExecutionSetProvider = new
LocalRuleExecutionSetProviderImpl();
        in = new URL( ruleExecutionSetUri ).openStream();
        final Reader reader = new InputStreamReader( in );
        return localRuleExecutionSetProvider.createRuleExecutionSet( reader,
                                                                    properties );
    } catch ( final IOException ex ) {
        throw ex;
    } finally {
        if ( in != null ) {
            in.close();
        }
    }
}
}
package org.drools.jsr94.rules.admin;

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*/

import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.Reader;
import java.io.StringReader;

```

```

import java.util.Map;

import javax.rules.admin.LocalRuleExecutionSetProvider;
import javax.rules.admin.RuleExecutionSet;
import javax.rules.admin.RuleExecutionSetCreateException;

import org.drools.IntegrationException;
import org.drools.compiler.DroolsParserException;
import org.drools.compiler.PackageBuilder;
import org.drools.compiler.PackageBuilderConfiguration;
import org.drools.decisiontable.InputType;
import org.drools.decisiontable.SpreadsheetCompiler;
import org.drools.jsr94.rules.Constants;
import org.drools.rule.Package;

/**
 * The Drools implementation of the LocalRuleExecutionSetProvider
 * interface which defines RuleExecutionSet creation methods for
 * defining RuleExecutionSets from local (non-serializable)
 * resources.
 *
 * @see LocalRuleExecutionSetProvider
 *
 * @author N. Alex Rupp (n_alex <at>codehaus.org)
 * @author <a href="mailto:thomas.diesler@softcon-itec.de">thomas diesler </a>
 * @author <a href="mailto:michael.frandsen@syngenio.de">michael frandsen </a>
 */
public class LocalRuleExecutionSetProviderImpl
    implements
        LocalRuleExecutionSetProvider {
    /** Default constructor. */
    public LocalRuleExecutionSetProviderImpl() {
        super();
    }

    /**
     * Creates a RuleExecutionSet implementation using a supplied
     * input stream and additional Drools-specific properties. A Drools-specific
     * rule execution set is read from the supplied InputStream. The method
     * createRuleExecutionSet taking a Reader instance should be
     * used if the source is a character stream and encoding conversion should
     * be performed.
     *
     * @param ruleExecutionSetStream
     *     an input stream used to read the rule execution set.
     * @param properties
     *     additional properties used to create the
     *     RuleExecutionSet implementation. May be

```

```

*     <code>null</code>.
*
* @throws RuleExecutionSetCreateException
*     on rule execution set creation error.
*
* @return The created <code>RuleExecutionSet</code>.
*/
public RuleExecutionSet createRuleExecutionSet(final InputStream ruleExecutionSetStream,
                                             final Map properties) throws RuleExecutionSetCreateException {
    if ( properties != null ) {
        String source = ( String ) properties.get( Constants.RES_SOURCE );
        if ( source == null ) {
            // support legacy name
            source = ( String ) properties.get( "source" );
        }
        if ( source != null && source.equals( Constants.RES_SOURCE_TYPE_DECISION_TABLE ) ) {
            final SpreadsheetCompiler converter = new SpreadsheetCompiler();
            final String drl = converter.compile( ruleExecutionSetStream,
                                               InputType.XLS );
            return createRuleExecutionSet( new StringReader( drl ), properties );
        } else {
            return createRuleExecutionSet( new InputStreamReader( ruleExecutionSetStream ), properties);
        }
    } else
        return createRuleExecutionSet( new InputStreamReader( ruleExecutionSetStream ), properties);
}

/**
* Creates a <code>RuleExecutionSet</code> implementation using a supplied
* character stream Reader and additional Drools-specific properties. A
* Drools-specific rule execution set is read from the supplied Reader.
*
* @param ruleExecutionSetReader
*     a Reader used to read the rule execution set.
* @param properties
*     additional properties used to create the
*     <code>RuleExecutionSet</code> implementation. May be
*     <code>null</code>.
*
* @throws RuleExecutionSetCreateException
*     on rule execution set creation error.
*
* @return The created <code>RuleExecutionSet</code>.
*/
public RuleExecutionSet createRuleExecutionSet(final Reader ruleExecutionSetReader,
                                             final Map properties) throws RuleExecutionSetCreateException {

```

```

try {
    PackageBuilderConfiguration config= null;

    if ( properties != null ) {
        config = (PackageBuilderConfiguration) properties.get( Constants.RES_PACKAGEBUILDER_CONFIG
);
    }

    PackageBuilder builder = null;
    if ( config != null ) {
        builder = new PackageBuilder(config);
    } else {
        builder = new PackageBuilder();
    }

    Object dsrl = null;
    String source = null;

    if ( properties != null ) {
        dsrl = properties.get( Constants.RES_DSL );
        if ( dsrl == null ) {
            // check for old legacy name ending
            dsrl = properties.get( "dsl" );
        }
        source = ( String ) properties.get( Constants.RES_SOURCE );
        if ( source == null ) {
            // check for old legacy name ending
            source = ( String ) properties.get( "source" );
        }
    }

    if ( source == null ) {
        source = "drl";
    }

    if ( dsrl == null ) {
        if ( source.equals( Constants.RES_SOURCE_TYPE_XML ) || source.equals( "xml" ) ) {
            builder.addPackageFromXml( ruleExecutionSetReader );
        } else {
            builder.addPackageFromDrl( ruleExecutionSetReader );
        }
    } else {
        if ( source.equals( Constants.RES_SOURCE_TYPE_XML ) || source.equals( "xml" ) ) {
            // xml cannot specify a dsl
            builder.addPackageFromXml( ruleExecutionSetReader );
        } else {
            if ( dsrl instanceof Reader ) {
                builder.addPackageFromDrl( ruleExecutionSetReader,

```

```

        (Reader) dsrl );
    } else {
        builder.addPackageFromDrl( ruleExecutionSetReader,
            new StringReader( (String) dsrl ) );
    }
}

final Package pkg = builder.getPackage();
return createRuleExecutionSet( pkg,
    properties );
} catch ( final IOException e ) {
    throw new RuleExecutionSetCreateException( "cannot create rule execution set",
        e );
} catch ( final DroolsParserException e ) {
    throw new RuleExecutionSetCreateException( "cannot create rule execution set",
        e );
}
}
}

/**
 * Creates a RuleExecutionSet implementation from a
 * Drools-specific AST representation and Drools-specific properties.
 *
 * @param ruleExecutionSetAst
 *     the vendor representation of a rule execution set
 * @param properties
 *     additional properties used to create the
 *     RuleExecutionSet implementation. May be
 *     null.
 *
 * @throws RuleExecutionSetCreateException
 *     on rule execution set creation error.
 *
 * @return The created RuleExecutionSet.
 */
public RuleExecutionSet createRuleExecutionSet(final Object ruleExecutionSetAst,
    final Map properties) throws RuleExecutionSetCreateException {
    if ( ruleExecutionSetAst instanceof Package ) {
        final Package pkg = (Package) ruleExecutionSetAst;
        return this.createRuleExecutionSet( pkg,
            properties );
    }
    throw new RuleExecutionSetCreateException( " Incoming AST object must be an org.drools.rule.Package.
Was " + ruleExecutionSetAst.getClass() );
}

```

```

/**
 * Creates a <code>RuleExecutionSet</code> implementation from a
 * <code>RuleSet</code> and Drools-specific properties.
 *
 * @param pkg
 *     a Drools <code>org.drools.rule.Package</code> representation
 *     of a rule execution set.
 * @param properties
 *     additional properties used to create the RuleExecutionSet
 *     implementation. May be <code>>null</code>.
 *
 * @throws RuleExecutionSetCreateException
 *     on rule execution set creation error.
 *
 * @return The created <code>RuleExecutionSet</code>.
 */
private RuleExecutionSet createRuleExecutionSet(final Package pkg,
                                               final Map properties) throws RuleExecutionSetCreateException {
    try {
        return new RuleExecutionSetImpl( pkg,
                                       properties );
    } catch ( final IntegrationException e ) {
        throw new RuleExecutionSetCreateException( "Failed to create RuleExecutionSet",
                                                  e );
    }
}
}
package org.drools.jsr94.rules.admin;

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 * limitations under the License.
 */

import java.util.HashMap;
import java.util.Map;

```



```

import javax.rules.admin.Rule;

/**
 * The Drools implementation of the <code>Rule</code> interface which provides
 * access to simple metadata for a rule. Related <code>Rule</code>
 * instances are assembled into <code>RuleExecutionSet</code>s, which in
 * turn, can be executed by a rules engine via the <code>RuleSession</code>
 * interface.
 *
 * @see Rule
 *
 * @author N. Alex Rupp (n_alex <at>codehaus.org)
 * @author <a href="mailto:thomas.diesler@softcon-itec.de">thomas diesler </a>
 * @author <a href="mailto:michael.frandsen@syngenio.de">michael frandsen </a>
 */
public class RuleImpl
    implements
    Rule {
    /**
     *
     */
    private static final long serialVersionUID = 400L;

    /** The name of this rule. */
    private String name;

    /** A description of the rule or null if no description is specified. */
    private String description;

    /** A <code>Map</code> of user-defined and Drools-defined properties. */
    private final Map properties = new HashMap();

    /**
     * The <code>org.drools.rule.Rule</code> that lies at the core of
     * this <code>javax.rules.admin.Rule</code> object.
     */
    private org.drools.rule.Rule rule;

    /**
     * Creates a <code>RuleImpl</code> object by wrapping an
     * <code>org.drools.rule.Rule</code> object.
     *
     * @param rule the <code>org.drools.rule.Rule</code> object to be wrapped.
     */
    RuleImpl(final org.drools.rule.Rule rule) {
        this.rule = rule;
        this.name = rule.getName();
        this.description = rule.getName();// the name of a rule is the only description
    }
}

```

```

}

/**
 * Returns the <code>org.drools.rule.Rule</code> that lies at the core of
 * this <code>javax.rules.admin.Rule</code> object. This method is package
 * private.
 *
 * @return <code>org.drools.rule.Rule</code> at the core of this object.
 */
org.drools.rule.Rule getRule() {
    return this.rule;
}

/* Rule interface methods */

/**
 * Get the name of this rule.
 *
 * @return The name of this rule.
 */
public String getName() {
    return this.name;
}

/**
 * Get a description of the rule.
 *
 * @return A description of the rule or null if no description is specified.
 */
public String getDescription() {
    return this.description;
}

/**
 * Get a user-defined or Drools-defined property.
 *
 * @param key the key to use to retrieve the property
 *
 * @return the value bound to the key or <code>null</code>
 */
public Object getProperty(final Object key) {
    // TODO certain keys should reference internal rule accessor methods
    return this.properties.get( key );
}

/**
 * Set a user-defined or Drools-defined property.
 *

```

```

* @param key the key for the property value
* @param value the value to associate with the key
*/
public void setProperty(final Object key,
                       final Object value) {
    // TODO certain keys should alter internal rule accessor methods
    this.properties.put( key,
                        value );
}
}
package org.drools.jsr94.rules;

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* limitations under the License.
*/

import java.util.Iterator;
import java.util.List;
import java.util.Map;

import javax.rules.InvalidRuleSessionException;
import javax.rules.RuleExecutionSetMetadata;
import javax.rules.RuleSession;
import javax.rules.admin.RuleExecutionSet;

import org.drools.jsr94.rules.admin.RuleExecutionSetImpl;
import org.drools.jsr94.rules.repository.RuleExecutionSetRepository;
import org.drools.jsr94.rules.repository.RuleExecutionSetRepositoryException;

/**
* The Drools implementation of the RuleSession interface which is
* a representation of a client session with a rules engine. A rules engine
* session serves as an entry point into an underlying rules engine. The
* RuleSession is bound to a rules engine instance and exposes a
* vendor-neutral rule processing API for executing Rules within a
* bound RuleExecutionSet.

```

```

* <p/>
* Note: the <code>release</code> method must be called to clean up all
* resources used by the <code>RuleSession</code>. Calling <code>release</code>
* may make the <code>RuleSession</code> eligible to be returned to a
* <code>RuleSession</code> pool.
*
* @see RuleSession
*
* @author N. Alex Rupp (n_alex <at>codehaus.org)
* @author <a href="mailto:thomas.diesler@softcon-itec.de">thomas diesler </a>
*/
abstract class AbstractRuleSessionImpl
    implements
        RuleSession {
    private RuleExecutionSetRepository repository;

    public AbstractRuleSessionImpl(final RuleExecutionSetRepository repository) {
        this.repository = repository;
    }

    /**
     * The Drools <code>RuleExecutionSet</code> associated
     * with this <code>RuleSession</code>.
     */
    private RuleExecutionSetImpl ruleExecutionSet;

    /**
     * A <code>Map</code> of <code>String</code>/<code>Object</code> pairs
     * passed as application data to the Drools <code>WorkingMemory</code>.
     */
    private Map                properties;

    /**
     * Sets additional properties used to create this <code>RuleSession</code>.
     *
     * @param properties additional properties used to create the
     *     <code>RuleSession</code> implementation.
     */
    protected void setProperties(final Map properties) {
        this.properties = properties;
    }

    /**
     * Returns the additional properties used to create this
     * <code>RuleSession</code>.
     *
     * @return the additional properties used to create this
     *     <code>RuleSession</code>.

```

```

*/
protected Map getProperties() {
    return this.properties;
}

/**
 * Sets the Drools <code>RuleExecutionSet</code> associated
 * with this <code>RuleSession</code>.
 *
 * @param ruleExecutionSet the Drools <code>RuleExecutionSet</code> to associate
 * with this <code>RuleSession</code>.
 */
protected void setRuleExecutionSet(final RuleExecutionSetImpl ruleExecutionSet) {
    this.ruleExecutionSet = ruleExecutionSet;
}

/**
 * Returns the Drools <code>RuleExecutionSet</code> associated
 * with this <code>RuleSession</code>.
 *
 * @return the Drools <code>RuleExecutionSet</code> associated
 * with this <code>RuleSession</code>.
 */
protected RuleExecutionSetImpl getRuleExecutionSet() {
    return this.ruleExecutionSet;
}

protected abstract void checkRuleSessionValidity() throws InvalidRuleSessionException;

// JSR94 interface methods start here -----

/**
 * Returns the meta data for the rule execution set bound to this rule
 * session.
 *
 * @return the RuleExecutionSetMetadata bound to this rule session.
 */
public RuleExecutionSetMetadata getRuleExecutionSetMetadata() {
    String theBindUri = null;
    List registrations = null;

    try {
        registrations = this.repository.getRegistrations();
    } catch (RuleExecutionSetRepositoryException e) {
        String s = "Error while retrieving rule execution set registrations";
        throw new RuntimeException(s, e);
    }
}

```

```

    for ( final Iterator i = registrations.iterator(); i.hasNext(); ) {
        final String aBindUri = (String) i.next();
        // FIXME: provide the correct properties
        RuleExecutionSet aRuleSet = null;

    try {
        aRuleSet = this.repository.getRuleExecutionSet( aBindUri, null );
    } catch (RuleExecutionSetRepositoryException e) {
        String s = "Error while retrieving rule execution set bound to: " + aBindUri;
        throw new RuntimeException(s, e);
    }

        if ( aRuleSet == this.ruleExecutionSet ) {
            theBindUri = aBindUri;
            break;
        }
    }

    return new RuleExecutionSetMetadataImpl( theBindUri,
                                           this.ruleExecutionSet.getName(),
                                           this.ruleExecutionSet.getDescription() );
}

/**
 * Releases all resources used by this rule session.
 * This method renders this rule session unusable until
 * it is reacquired through the <code>RuleRuntime</code>.
 */
public void release() {
    setProperties( null );
    setRuleExecutionSet( null );
}
}
package org.drools.jsr94.rules;

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```

```

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* limitations under the License.
*/
import java.util.Iterator;
import java.util.List;
import java.util.Map;

import javax.rules.InvalidRuleSessionException;
import javax.rules.ObjectFilter;
import javax.rules.RuleExecutionSetNotFoundException;
import javax.rules.RuleRuntime;
import javax.rules.RuleSessionCreateException;
import javax.rules.StatelessRuleSession;

import org.drools.StatelessSession;
import org.drools.StatelessSessionResult;
import org.drools.jsr94.rules.admin.RuleExecutionSetImpl;
import org.drools.jsr94.rules.repository.RuleExecutionSetRepository;
import org.drools.jsr94.rules.repository.RuleExecutionSetRepositoryException;

/**
 * The Drools implementation of the StatelessRuleSession
 * interface which is a representation of a stateless rules engine session. A
 * stateless rules engine session exposes a stateless rule execution API to an
 * underlying rules engine.
 *
 * @see StatelessRuleSession
 *
 * @author <a href="mailto:thomas.diesler@softcon-itec.de">thomas diesler </a>
 */
public class StatelessRuleSessionImpl extends AbstractRuleSessionImpl
    implements
    StatelessRuleSession {
    /**
     * Gets the RuleExecutionSet for this URI and associates it
     * with a RuleBase.
     *
     * @param bindUri
     *     the URI the RuleExecutionSet has been bound to
     * @param properties
     *     additional properties used to create the
     *     RuleSession implementation.
     *
     * @throws RuleExecutionSetNotFoundException
     *     if there is no rule set under the given URI
     * @throws RuleSessionCreateException
     */
    StatelessRuleSessionImpl(final String bindUri,

```

```

        final Map properties,
        final RuleExecutionSetRepository repository)
throws RuleExecutionSetNotFoundException, RuleSessionCreateException {

    super( repository );
    setProperties( properties );

    RuleExecutionSetImpl ruleSet = null;

try {
    ruleSet = (RuleExecutionSetImpl)
repository.getRuleExecutionSet(bindUri, properties);
} catch (RuleExecutionSetRepositoryException e) {
    String s = "Error while retrieving rule execution set bound to: " + bindUri;
    throw new RuleSessionCreateException(s, e);
}

    if ( ruleSet == null ) {
        throw new RuleExecutionSetNotFoundException( "RuleExecutionSet unbound: " + bindUri );
    }

    setRuleExecutionSet( ruleSet );
}

/**
 * Initialize this <code>RuleSession</code>
 * with a new <code>WorkingMemory</code>.
 */
protected StatelessSession newStatelessSession() {
    final StatelessSession session = this.getRuleExecutionSet().newStatelessSession();

    final Map props = this.getProperties();
    if ( props != null ) {
        for ( final Iterator iterator = props.entrySet().iterator(); iterator.hasNext(); ) {
            final Map.Entry entry = (Map.Entry) iterator.next();
            session.setGlobal( (String) entry.getKey(),
                entry.getValue() );
        }
    }
    return session;
}

/**
 * Executes the rules in the bound rule execution set using the supplied
 * list of objects. A <code>List</code> is returned containing the objects
 * created by (or passed into the rule session) the executed rules that pass
 * the filter test of the default <code>RuleExecutionSet</code>
 * <code>ObjectFilter</code>

```



```

* (if present). <p/> The returned list may not necessarily include all
* objects passed, and may include <code>Object</code>s created by
* side-effects. The execution of a <code>RuleExecutionSet</code> can add,
* remove and update objects. Therefore the returned object list is
* dependent on the rules that are part of the executed
* <code>RuleExecutionSet</code> as well as Drools specific rule engine
* behavior.
*
* @param objects
*     the objects used to execute rules.
*
* @return a <code>List</code> containing the objects as a result of
*     executing the rules.
*
* @throws InvalidRuleSessionException
*     on illegal rule session state.
*/
public List executeRules(final List objects) throws InvalidRuleSessionException {
    return executeRules( objects,
        this.getRuleExecutionSet().getObjectFilter() );
}

/**
* Executes the rules in the bound rule execution set using the supplied
* list of objects. A <code>List</code> is returned containing the objects
* created by (or passed into the rule engine) the executed rules and
* filtered with the supplied object filter. <p/> The returned list may not
* necessarily include all objects passed, and may include
* <code>Object</code>s created by side-effects. The execution of a
* <code>RuleExecutionSet</code> can add, remove and update objects.
* Therefore the returned object list is dependent on the rules that are
* part of the executed <code>RuleExecutionSet</code> as well as Drools
* specific rule engine behavior.
*
* @param objects
*     the objects used to execute rules.
* @param filter
*     the object filter.
*
* @return a <code>List</code> containing the objects as a result of
*     executing rules, after passing through the supplied object
*     filter.
*
* @throws InvalidRuleSessionException
*     on illegal rule session state.
*/
public List executeRules(final List objects,
    final ObjectFilter filter) throws InvalidRuleSessionException {

```

```

        StatelessSession session = new StatelessSession();
        StatelessSessionResult results = session.executeWithResults( objects );

        return IteratorToList.convert( results.iterateObjects( new ObjectFilterAdapter( filter ) ) );
    }

    public int getType() throws InvalidRuleSessionException {
        return RuleRuntime.STATELESS_SESSION_TYPE;
    }

    /**
     * Ensures this <code>RuleSession</code> is not
     * in an illegal rule session state.
     *
     * @throws InvalidRuleSessionException on illegal rule session state.
     */
    protected void checkRuleSessionValidity() throws InvalidRuleSessionException {
        if ( getRuleExecutionSet() == null ) {
            throw new InvalidRuleSessionException( "invalid rule session" );
        }
    }
}
package org.drools.jsr94.rules;

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 */

import javax.rules.ConfigurationException;
import javax.rules.RuleRuntime;
import javax.rules.RuleServiceProvider;
import javax.rules.RuleServiceProviderManager;
import javax.rules.admin.RuleAdministrator;

import org.drools.jsr94.rules.admin.RuleAdministratorImpl;
import org.drools.jsr94.rules.repository.RuleExecutionSetRepository;

```

```

import org.drools.jsr94.rules.repository.RuleExecutionSetRepositoryLoader;

/**
 * This class provides access to the <code>RuleRuntime</code> and
 * <code>RuleAdministrator</code> implementation supplied by Drools when
 * running under J2SE. <p/> This class should be used in environments without a
 * JNDI provider - typically when writing standalone J2SE clients. Within the
 * J2EE environment the <code>RuleServiceProvider</code> implementation class
 * provided by Drools should be retrieved using a JNDI lookup. <p/> This class
 * should be constructed using the
 * <code>RuleServiceProviderManager.getRuleServiceProvider</code> method.
 * This class is automatically registered to "http://drools.org/" on startup,
 * via the static block.
 *
 * @see RuleRuntimeImpl
 * @see RuleAdministratorImpl
 * @see RuleServiceProvider
 * @see javax.rules.RuleServiceProviderManager#getRuleServiceProvider(String)
 *
 * @author <a href="mailto:thomas.diesler@softcon-itec.de">thomas diesler </a>
 */
public class RuleServiceProviderImpl extends RuleServiceProvider implements java.io.Serializable {
    public static final String    RULE_SERVICE_PROVIDER = "http://drools.org/";

    /** An instance of <code>RuleRuntimeImpl</code>. */
    private RuleRuntime          ruleRuntime;

    /** An instance of <code>RuleAdministratorImpl</code>. */
    private RuleAdministrator    ruleAdministrator;

    private RuleExecutionSetRepository repository;

    static {
        try {
            RuleServiceProviderManager.registerRuleServiceProvider( RULE_SERVICE_PROVIDER,
                RuleServiceProviderImpl.class );
        } catch ( ConfigurationException e ) {
            System.err.println( "Unable to register Rule Service Provider " + RULE_SERVICE_PROVIDER );
        }
    }

    /**
     * Create a new <code>RuleServiceProviderImpl</code>.
     */
    public RuleServiceProviderImpl() {
        // no special initialization required
    }
}

```

```

/**
 * Returns the RuleExecutionSetRepository
 * @return
 */
public synchronized RuleExecutionSetRepository getRepository() {
    // Lazy loaded
    if ( this.repository == null ) {
        this.repository = createRuleExecutionSetRepository();
    }
    return this.repository;
}

/**
 * Returns a class instance of <code>RuleRuntime</code>. Specifically an
 * instance of the Drools <code>RuleRuntimeImpl</code> is returned.
 *
 * @return an instance of <code>RuleRuntime</code>
 */
public synchronized RuleRuntime getRuleRuntime() {
    if ( this.ruleRuntime == null ) {
        this.ruleRuntime = new RuleRuntimeImpl( getRepository() );
    }

    return this.ruleRuntime;
}

/**
 * Returns a class instance of <code>RuleAdministrator</code>.
 * Specifically an instance of the Drools <code>RuleAdministratorImpl</code>
 * is returned.
 *
 * @return an instance of <code>RuleAdministrator</code>
 */
public synchronized RuleAdministrator getRuleAdministrator() {
    // Lazy instantiate
    if ( this.ruleAdministrator == null ) {
        this.ruleAdministrator = new RuleAdministratorImpl( getRepository() );
    }
    return this.ruleAdministrator;
}

/**
 * Creates the RuleExecutionSetRepository.
 *
 * @return
 */
protected RuleExecutionSetRepository createRuleExecutionSetRepository() {
    String defaultFactoryName = "org.drools.jsr94.rules.repository.DefaultRuleExecutionSetRepository";

```

```

    return RuleExecutionSetRepositoryLoader.loadRuleExecutionSetRepository(defaultFactoryName);
}
}
package org.drools.jsr94.rules;

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 */

import javax.rules.RuleExecutionSetMetadata;

/**
 * The Drools implementation of the RuleExecutionSetMetadata
 * interface which exposes some simple properties of the
 * RuleExecutionSet to the runtime user.
 *
 * @see RuleExecutionSetMetadata
 */
public class RuleExecutionSetMetadataImpl
    implements
    RuleExecutionSetMetadata {
    /**
     *
     */
    private static final long serialVersionUID = 400L;

    /** The URI for this RuleExecutionSet. */
    private final String uri;

    /** The name of this RuleExecutionSet. */
    private final String name;

    /** The description of this RuleExecutionSet. */
    private final String description;

    /**

```

```

* Constructs an instance of <code>RuleExecutionSetMetadata</code>.
*
* @param uri The URI for this <code>RuleExecutionSet</code>.
* @param name The name of this <code>RuleExecutionSet</code>.
* @param description The description of this <code>RuleExecutionSet</code>.
*/
public RuleExecutionSetMetadataImpl(final String uri,
                                   final String name,
                                   final String description) {
    this.uri = uri;
    this.name = name;
    this.description = description;
}

/**
* Get the URI for this <code>RuleExecutionSet</code>.
*
* @return The URI for this <code>RuleExecutionSet</code>.
*/
public String getUri() {
    return this.uri;
}

/**
* Get the name of this <code>RuleExecutionSet</code>.
*
* @return The name of this <code>RuleExecutionSet</code>.
*/
public String getName() {
    return this.name;
}

/**
* Get a short description about this <code>RuleExecutionSet</code>.
*
* @return The description of this <code>RuleExecutionSet</code>
*         or <code>null</code>.
*/
public String getDescription() {
    return this.description;
}
}
package org.drools.jsr94.rules;

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 * limitations under the License.
 */

```
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
```

```
import javax.rules.Handle;
import javax.rules.InvalidHandleException;
import javax.rules.InvalidRuleSessionException;
import javax.rules.ObjectFilter;
import javax.rules.RuleExecutionSetNotFoundException;
import javax.rules.RuleRuntime;
import javax.rules.RuleSessionCreateException;
import javax.rules.StatefulRuleSession;
```

```
import org.drools.FactHandle;
import org.drools.SessionConfiguration;
import org.drools.StatefulSession;
import org.drools.jsr94.rules.admin.RuleExecutionSetImpl;
import org.drools.jsr94.rules.repository.RuleExecutionSetRepository;
import org.drools.jsr94.rules.repository.RuleExecutionSetRepositoryException;
```

```
/**
 * The Drools implementation of the StatefulRuleSession interface
 * which is a representation of a stateful rules engine session. A stateful
 * rules engine session exposes a stateful rule execution API to an underlying
 * rules engine. The session allows arbitrary objects to be added and removed to
 * and from the rule session state. Additionally, objects currently part of the
 * rule session state may be updated. 

There are inherently side-effects to
 * adding objects to the rule session state. The execution of a RuleExecutionSet
 * can add, remove and update objects in the rule session state. The objects in
 * the rule session state are therefore dependent on the rules within the
 * RuleExecutionSet as well as the rule engine vendor's specific
 * rule engine behavior. 

Handle instances are used by the
 * rule engine vendor to track Objects added to the rule session
 * state. This allows multiple instances of equivalent Objects
 * to be added to the session state and identified, even after serialization.


```

```

*
* @see StatefulRuleSession
*
* @author N. Alex Rupp (n_alex <at>codehaus.org)
* @author <a href="mailto:thomas.diesler@softcon-itec.de">thomas diesler </a>
*/
public class StatefulRuleSessionImpl extends AbstractRuleSessionImpl
    implements
    StatefulRuleSession {
    // -----
    // Constructors
    // -----

    /**
    *
    */
    private static final long serialVersionUID = 400L;

    private StatefulSession session;

    /**
    * Gets the <code>RuleExecutionSet</code> for this URI and associates it
    * with a RuleBase.
    *
    * @param bindUri
    *     the URI the <code>RuleExecutionSet</code> has been bound to
    * @param properties
    *     additional properties used to create the
    *     <code>RuleSession</code> implementation.
    *
    * @throws RuleExecutionSetNotFoundException
    *     if there is no rule set under the given URI
    * @throws RuleSessionCreateException
    */
    StatefulRuleSessionImpl(final String bindUri,
        final Map properties,
        final RuleExecutionSetRepository repository)
    throws RuleExecutionSetNotFoundException, RuleSessionCreateException {

        super( repository );
        setProperties( properties );

        RuleExecutionSetImpl ruleSet = null;

        try {
            ruleSet = (RuleExecutionSetImpl)
            repository.getRuleExecutionSet(bindUri, properties);
        } catch (RuleExecutionSetRepositoryException e) {

```



```

String s = "Error while retrieving rule execution set bound to: " + bindUri;
throw new RuleSessionCreateException(s, e);
}

if ( ruleSet == null ) {
    throw new RuleExecutionSetNotFoundException( "no execution set bound to: " + bindUri );
}

this.setRuleExecutionSet( ruleSet );

SessionConfiguration conf = new SessionConfiguration();
conf.setKeepReference( true );
initSession( conf );
}

/**
 * Initialize this <code>RuleSession</code>
 * with a new <code>WorkingMemory</code>.
 */
protected void initSession(SessionConfiguration conf) {
    this.session = this.getRuleExecutionSet().newStatefulSession( conf );

    final Map props = this.getProperties();
    if ( props != null ) {
        for ( final Iterator iterator = props.entrySet().iterator(); iterator.hasNext(); ) {
            final Map.Entry entry = (Map.Entry) iterator.next();
            this.session.setGlobal( (String) entry.getKey(),
                entry.getValue() );
        }
    }
}

// -----
// Instance methods
// -----

/**
 * Returns <code>>true</code> if the given object is contained within
 * rulesession state of this rule session.
 *
 * @param objectHandle
 *         the handle to the target object.
 *
 * @return <code>>true</code> if the given object is contained within the
 *         rule session state of this rule session.
 */
public boolean containsObject(final Handle objectHandle) {
    if ( objectHandle instanceof FactHandle ) {

```

```

        return this.session.getObject( (FactHandle) objectHandle ) != null;
    }

    return false;
}

/**
 * Adds a given object to the rule session state of this rule session. The
 * argument to this method is Object because in the non-managed env. not all
 * objects should have to implement Serializable. If the
 * <code>RuleSession</code> is <code>Serializable</code> and it contains
 * non-serializable fields a runtime exception will be thrown.
 *
 * @param object
 *     the object to be added.
 *
 * @return the Handle for the newly added Object
 *
 * @throws InvalidRuleSessionException
 *     on illegal rule session state.
 */
public Handle addObject(final Object object) throws InvalidRuleSessionException {
    checkRuleSessionValidity();
    return (Handle) this.session.insert( object );
}

/**
 * Adds a <code>List</code> of <code>Object</code>s to the rule session
 * state of this rule session.
 *
 * @param objList
 *     the objects to be added.
 *
 * @return a <code>List</code> of <code>Handle</code>s, one for each
 *     added <code>Object</code>. The <code>List</code> must be
 *     ordered in the same order as the input <code>objList</code>.
 *
 * @throws InvalidRuleSessionException
 *     on illegal rule session state.
 */
public List addObjects(final List objList) throws InvalidRuleSessionException {
    checkRuleSessionValidity();

    final List handles = new ArrayList();

    for ( final Iterator objectIter = objList.iterator(); objectIter.hasNext(); ) {
        handles.add( addObject( objectIter.next() ) );
    }
}

```

```

    return handles;
}

/**
 * Notifies the rules engine that a given object in the rule session state
 * has changed. <p/> The semantics of this call are equivalent to calling
 * <code>removeObject</code> followed by <code>addObject</code>. The
 * original <code>Handle</code> is rebound to the new value for the
 * <code>Object</code> however.
 *
 * @param objectHandle
 *     the handle to the original object.
 * @param newObject
 *     the new object to bind to the handle.
 *
 * @throws InvalidRuleSessionException
 *     on illegal rule session state.
 * @throws InvalidHandleException
 *     if the input <code>Handle</code> is no longer valid
 */
public void updateObject(final Handle objectHandle,
                        final Object newObject) throws InvalidRuleSessionException,
                        InvalidHandleException {
    checkRuleSessionValidity();

    if ( objectHandle instanceof FactHandle ) {
        this.session.update( (FactHandle) objectHandle,
                            newObject );
    } else {
        throw new InvalidHandleException( "invalid handle" );
    }
}

/**
 * Removes a given object from the rule session state of this rule session.
 *
 * @param handleObject
 *     the handle to the object to be removed from the rule session
 *     state.
 *
 * @throws InvalidRuleSessionException
 *     on illegal rule session state.
 * @throws InvalidHandleException
 *     if the input <code>Handle</code> is no longer valid
 */
public void removeObject(final Handle handleObject) throws InvalidRuleSessionException,
                        InvalidHandleException {

```

```

checkRuleSessionValidity();

if ( handleObject instanceof FactHandle ) {
    this.session.retract( (FactHandle) handleObject );
} else {
    throw new InvalidHandleException( "invalid handle" );
}
}

/**
 * Executes the rules in the bound rule execution set using the objects
 * present in the rule session state. This will typically modify the rule
 * session state - and may add, remove or update <code>Object</code>s
 * bound to <code>Handle</code>s.
 *
 * @throws InvalidRuleSessionException
 *         on illegal rule session state.
 */
public void executeRules() throws InvalidRuleSessionException {
    checkRuleSessionValidity();
    this.session.fireAllRules();
}

/**
 * @see StatefulRuleSessionImpl
 */
public Object getObject(final Handle handle) throws InvalidRuleSessionException,
        InvalidHandleException {
    checkRuleSessionValidity();

    if ( handle instanceof FactHandle ) {
        return this.session.getObject( (FactHandle) handle );
    } else {
        throw new InvalidHandleException( "invalid handle" );
    }
}

/**
 * Returns a <code>List</code> of the <code>Handle</code>s being used
 * for object identity.
 *
 * @return a <code>List</code> of <code>Handle</code>s present in the
 *         current state of the rule session.
 */
public List getHandles() {
    return IteratorToList.convert( this.session.iterateFactHandles() );
}

```

```

/**
 * Returns a List of all objects in the rule session state of this rule
 * session. The objects should pass the default filter test of the default
 * RuleExecutionSet filter (if present). 

This may not
 * necessarily include all objects added by calls to addObject,
 * and may include Objects created by side-effects. The
 * execution of a RuleExecutionSet can add, remove and update
 * objects as part of the rule session state. Therefore the rule session
 * state is dependent on the rules that are part of the executed
 * RuleExecutionSet as well as the rule vendor's specific
 * rule engine behavior.


 *
 * @return a List of all objects part of the rule session
 *         state.
 *
 * @throws InvalidRuleSessionException
 *         on illegal rule session state.
 */
public List getObjects() throws InvalidRuleSessionException {
    checkRuleSessionValidity();
    return getObjects( getRuleExecutionSet().getObjectFilter() );
}

/**
 * Returns a List over the objects in rule session state of
 * this rule session. The objects should pass the filter test on the
 * specified ObjectFilter. 

This may not necessarily
 * include all objects added by calls to addObject, and may
 * include Objects created by side-effects. The execution of
 * a RuleExecutionSet can add, remove and update objects as
 * part of the rule session state. Therefore the rule session state is
 * dependent on the rules that are part of the executed
 * RuleExecutionSet as well as the rule vendor's specific
 * rule engine behavior.


 *
 * @param filter
 *        the object filter.
 *
 * @return a List of all the objects in the rule session
 *         state of this rule session based upon the given object filter.
 *
 * @throws InvalidRuleSessionException
 *         on illegal rule session state.
 */
public List getObjects(final ObjectFilter filter) throws InvalidRuleSessionException {
    checkRuleSessionValidity();

    return IteratorToList.convert( this.session.iterateObjects( new ObjectFilterAdapter( filter ) ) );
}

```

```

}

/**
 * Resets this rule session. Calling this method will bring the rule session
 * state to its initial state for this rule session and will reset any other
 * state associated with this rule session.
 * <p/>
 * A reset will not reset the state on the default object filter for a
 * <code>RuleExecutionSet</code>.
 */
public void reset() {
    // stateful rule sessions should not be high load, thus safe to keep references
    initSession( new SessionConfiguration() );
}

public int getType() throws InvalidRuleSessionException {
    return RuleRuntime.STATEFUL_SESSION_TYPE;
}

/**
 * Releases all resources used by this rule session.
 * This method renders this rule session unusable until
 * it is reacquired through the <code>RuleRuntime</code>.
 */
public void release() {
    if ( this.session != null ) {
        this.session.dispose();
    }
    this.session = null;
    super.release();
}

/**
 * Ensures this <code>RuleSession</code> is not
 * in an illegal rule session state.
 *
 * @throws InvalidRuleSessionException on illegal rule session state.
 */
protected void checkRuleSessionValidity() throws InvalidRuleSessionException {
    if ( this.session == null ) {
        throw new InvalidRuleSessionException( "invalid rule session" );
    }
}
}

```

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1.422 junit 4.11

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1.423 JUnit 3.8.1

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.430 libICE 1.0.9 :2.e17

1.430.1 Available under license :

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From RPM File Metadata:IJG

1.432 libogg 1.3.0 :7.el7

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1.433 libpng 1.5.13 :7.el7_2

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```
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```

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1.434 libSM 1.2.2 :2.e17

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compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thrift.ll
compiler/cpp/src/thrift.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
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lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
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lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs

lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

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```

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L. Peter Deutsch
ghost@aladdin.com

```
*/
```

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compiler/cpp/Makefile.am

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compiler/cpp/src/generate/t_cpp_generator.cc
compiler/cpp/src/generate/t_csharp_generator.cc
compiler/cpp/src/generate/t_erl_generator.cc
compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thrift.l
compiler/cpp/src/thrift.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs

lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```
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```

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```
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```
*/
```

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1.439 libtiff 4.0.3 :27.el7_3

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1.440 libtool 2.4.2 :22.el7_3

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1.441 libvorbis 1.3.3 :8.el7

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1.443 libXau 1.0.8 :2.1.el7

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1.444 libxcb 1.11 :4.el7

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1.445 libXcomposite 0.4.4 :4.1.e17

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1.446 libXcursor 1.1.14 :2.1.el7

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1.447 libXdamage 1.1.4 :4.1.e17

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1.448 libXext 1.3.3 :3.e17

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1.449 libXfixes 5.0.1 :2.1.el7

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1.450 libXfont 1.5.1 :2.e17

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/* lib/font/fontfile/gunzip.c

written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

intended for inclusion in X11 public releases. */

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1.451 libXft 2.3.2 :2.e17

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1.452 libXi 1.7.4 :2.e17

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1.453 libXinerama 1.1.3 :2.1.el7

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1.454 libxml2 2.9.1 :6.el7_2.3

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1.456 libXrender 0.9.8 :2.1.el7

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1.457 libxshmfence 1.2 :1.el7

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1.458 libxslt 1.1.28 :5.el7

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1.459 libXtst 1.2.2 :2.1.el7

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1.460 libXxf86vm 1.1.3 :2.1.e17

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1.468 mailcap 2.1.41 :2.el7

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1.469 marshalling 1.3.6.wso2v1

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 */
```

```
package org.jboss.marshalling.river;
```

```
/**
 *
 */
public class SimpleClassDescriptor extends ClassDescriptor {
    private final Class<?> type;
    private int typeID;
    // non-public (due to security)
```

```

public SimpleClassDescriptor(final Class<?> type, final int typeId) {
    this.type = type;
    this.typeID = typeId;
}

public Class<?> getType() {
    return type;
}

public int getTypeID() {
    return typeId;
}
}
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 */

package org.jboss.marshalling.reflect;

import java.io.InvalidClassException;
import java.lang.reflect.InvocationTargetException;
import org.jboss.marshalling.Creator;

/**
 * A creator that simply uses reflection to locate and invoke a public, zero-argument constructor.
 */
public class PublicReflectiveCreator implements Creator {

    /** {@inheritDoc} */

```



```

public <T> T create(final Class<T> clazz) throws InvalidClassException {
    try {
        return clazz.getConstructor().newInstance();
    } catch (InvocationTargetException e) {
        final InvalidClassException ice = new InvalidClassException(clazz.getName(), "Constructor threw an
exception");
        ice.initCause(e);
        throw ice;
    } catch (IllegalAccessException e) {
        throw new InvalidClassException(clazz.getName(), "Illegal access exception occurred accessing the
constructor: " + String.valueOf(e));
    } catch (InstantiationException e) {
        throw new InvalidClassException(clazz.getName(), "Instantiation exception: " + String.valueOf(e));
    } catch (NoSuchMethodException e) {
        throw new InvalidClassException(clazz.getName(), "No public, zero-arg constructor");
    }
}
}
}
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*/

package org.jboss.marshalling;

import java.io.IOException;
import java.io.InterruptedIOException;

/**
* A limited byte output stream. Throws an exception if too many bytes are written.
*/

```

```

public class LimitedByteOutput extends OutputStream {

    private final long limit;
    private long count;

    /**
     * Construct a new instance.
     *
     * @param byteOutput the byte output to write to
     * @param limit the byte limit
     */
    public LimitedByteOutput(final ByteOutput byteOutput, final long limit) {
        super(byteOutput);
        this.limit = limit;
    }

    /** {@inheritDoc} */
    public void write(final int b) throws IOException {
        final long count = this.count;
        if (count < limit) {
            super.write(b);
            this.count = count + 1;
        } else {
            throw new IOException("Limit exceeded");
        }
    }

    /** {@inheritDoc} */
    public void write(final byte[] b, final int off, final int len) throws IOException {
        final long count = this.count;
        if (count + len > limit) {
            throw new IOException("Limit exceeded");
        }
        try {
            super.write(b, off, len);
        } catch (InterruptedException e) {
            this.count = count + e.bytesTransferred;
            throw e;
        }
        this.count = count + len;
    }
}

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*/

```

```
package org.jboss.marshalling;
```

```
import java.io.InputStream;
```

```

/**
 * A simple byte input which extends { @code InputStream }.
 */
public abstract class SimpleByteInput extends InputStream implements ByteInput {
}
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*/

```

```
package org.jboss.marshalling;
```

```

import java.io.DataOutput;
import java.io.IOException;
import java.io.NotActiveException;

public class SimpleDataOutput extends ByteOutputStream implements DataOutput {

    protected final int bufferSize;
    protected byte[] buffer;
    private int position;

    public SimpleDataOutput(final int bufferSize) {
        this(bufferSize, null);
    }

    public SimpleDataOutput(final int bufferSize, final ByteOutput byteOutput) {
        super(byteOutput);
        this.byteOutput = byteOutput;
        this.bufferSize = bufferSize;
        buffer = new byte[bufferSize];
    }

    public SimpleDataOutput(final ByteOutput byteOutput) {
        this(8192, byteOutput);
    }

    private static NotActiveException notActiveException() {
        return new NotActiveException("Output not started");
    }

    /** {@inheritDoc} */
    public void write(final int v) throws IOException {
        try {
            final byte[] buffer = this.buffer;
            final int position = this.position;
            if (position == buffer.length) {
                flush();
                buffer[0] = (byte) v;
                this.position = 1;
            } else {
                buffer[position] = (byte) v;
                this.position = position + 1;
            }
        } catch (NullPointerException e) {
            throw notActiveException();
        }
    }
}

```

```

/** {@inheritDoc} */
public void write(final byte[] bytes) throws IOException {
    write(bytes, 0, bytes.length);
}

/** {@inheritDoc} */
public void write(final byte[] bytes, final int off, int len) throws IOException {
    final int bl = buffer.length;
    final int position = this.position;
    if (len > bl - position || len > bl >> 3) {
        flush();
        byteOutput.write(bytes, off, len);
    } else {
        System.arraycopy(bytes, off, buffer, position, len);
        this.position = position + len;
    }
}

/** {@inheritDoc} */
public void writeBoolean(final boolean v) throws IOException {
    try {
        final byte[] buffer = this.buffer;
        final int remaining = buffer.length - position;
        if (remaining == 0) {
            flush();
            buffer[0] = (byte) (v ? 1 : 0);
            position = 1;
        } else {
            buffer[position++] = (byte) (v ? 1 : 0);
        }
    } catch (NullPointerException e) {
        throw notActiveException();
    }
}

/** {@inheritDoc} */
public void writeByte(final int v) throws IOException {
    try {
        final byte[] buffer = this.buffer;
        final int remaining = buffer.length - position;
        if (remaining == 0) {
            flush();
            buffer[0] = (byte) v;
            position = 1;
        } else {
            buffer[position++] = (byte) v;
        }
    } catch (NullPointerException e) {

```

```

        throw notActiveException();
    }
}

/** {@inheritDoc} */
public void writeShort(final int v) throws IOException {
    try {
        final byte[] buffer = this.buffer;
        final int remaining = buffer.length - position;
        if (remaining < 2) {
            flush();
            buffer[0] = (byte) (v >> 8);
            buffer[1] = (byte) v;
            position = 2;
        } else {
            final int s = position;
            position = s + 2;
            buffer[s] = (byte) (v >> 8);
            buffer[s+1] = (byte) v;
        }
    } catch (NullPointerException e) {
        throw notActiveException();
    }
}

```

```

/** {@inheritDoc} */
public void writeChar(final int v) throws IOException {
    try {
        final byte[] buffer = this.buffer;
        final int remaining = buffer.length - position;
        if (remaining < 2) {
            flush();
            buffer[0] = (byte) (v >> 8);
            buffer[1] = (byte) v;
            position = 2;
        } else {
            final int s = position;
            position = s + 2;
            buffer[s] = (byte) (v >> 8);
            buffer[s+1] = (byte) v;
        }
    } catch (NullPointerException e) {
        throw notActiveException();
    }
}

```

```

/** {@inheritDoc} */
public void writeInt(final int v) throws IOException {

```

```

try {
    final byte[] buffer = this.buffer;
    final int remaining = buffer.length - position;
    if (remaining < 4) {
        flush();
        buffer[0] = (byte) (v >> 24);
        buffer[1] = (byte) (v >> 16);
        buffer[2] = (byte) (v >> 8);
        buffer[3] = (byte) v;
        position = 4;
    } else {
        final int s = position;
        position = s + 4;
        buffer[s] = (byte) (v >> 24);
        buffer[s+1] = (byte) (v >> 16);
        buffer[s+2] = (byte) (v >> 8);
        buffer[s+3] = (byte) v;
    }
} catch (NullPointerException e) {
    throw notActiveException();
}
}

/** {@inheritDoc} */
public void writeLong(final long v) throws IOException {
    try {
        final byte[] buffer = this.buffer;
        final int remaining = buffer.length - position;
        if (remaining < 8) {
            flush();
            buffer[0] = (byte) (v >> 56L);
            buffer[1] = (byte) (v >> 48L);
            buffer[2] = (byte) (v >> 40L);
            buffer[3] = (byte) (v >> 32L);
            buffer[4] = (byte) (v >> 24L);
            buffer[5] = (byte) (v >> 16L);
            buffer[6] = (byte) (v >> 8L);
            buffer[7] = (byte) v;
            position = 8;
        } else {
            final int s = position;
            position = s + 8;
            buffer[s] = (byte) (v >> 56L);
            buffer[s+1] = (byte) (v >> 48L);
            buffer[s+2] = (byte) (v >> 40L);
            buffer[s+3] = (byte) (v >> 32L);
            buffer[s+4] = (byte) (v >> 24L);
            buffer[s+5] = (byte) (v >> 16L);

```

```

        buffer[s+6] = (byte) (v >> 8L);
        buffer[s+7] = (byte) v;
    }
} catch (NullPointerException e) {
    throw notActiveException();
}
}

/** {@inheritDoc} */
public void writeFloat(final float v) throws IOException {
    final int bits = Float.floatToIntBits(v);
    try {
        final byte[] buffer = this.buffer;
        final int remaining = buffer.length - position;
        if (remaining < 4) {
            flush();
            buffer[0] = (byte) (bits >> 24);
            buffer[1] = (byte) (bits >> 16);
            buffer[2] = (byte) (bits >> 8);
            buffer[3] = (byte) bits;
            position = 4;
        } else {
            final int s = position;
            position = s + 4;
            buffer[s] = (byte) (bits >> 24);
            buffer[s+1] = (byte) (bits >> 16);
            buffer[s+2] = (byte) (bits >> 8);
            buffer[s+3] = (byte) bits;
        }
    } catch (NullPointerException e) {
        throw notActiveException();
    }
}

/** {@inheritDoc} */
public void writeDouble(final double v) throws IOException {
    final long bits = Double.doubleToLongBits(v);
    try {
        final int remaining = buffer.length - position;
        if (remaining < 8) {
            flush();
            buffer[0] = (byte) (bits >> 56L);
            buffer[1] = (byte) (bits >> 48L);
            buffer[2] = (byte) (bits >> 40L);
            buffer[3] = (byte) (bits >> 32L);
            buffer[4] = (byte) (bits >> 24L);
            buffer[5] = (byte) (bits >> 16L);
            buffer[6] = (byte) (bits >> 8L);

```



```

        buffer[7] = (byte) bits;
        position = 8;
    } else {
        final int s = position;
        position = s + 8;
        buffer[s] = (byte) (bits >> 56L);
        buffer[s+1] = (byte) (bits >> 48L);
        buffer[s+2] = (byte) (bits >> 40L);
        buffer[s+3] = (byte) (bits >> 32L);
        buffer[s+4] = (byte) (bits >> 24L);
        buffer[s+5] = (byte) (bits >> 16L);
        buffer[s+6] = (byte) (bits >> 8L);
        buffer[s+7] = (byte) bits;
    }
} catch (NullPointerException e) {
    throw notActiveException();
}
}

/** {@inheritDoc} */
public void writeBytes(final String s) throws IOException {
    final int len = s.length();
    for (int i = 0; i < len; i++) {
        write(s.charAt(i));
    }
}

/** {@inheritDoc} */
public void writeChars(final String s) throws IOException {
    final int len = s.length();
    for (int i = 0; i < len; i++) {
        writeChar(s.charAt(i));
    }
}

/** {@inheritDoc} */
public void writeUTF(final String s) throws IOException {
    writeShort(UTFUtils.getShortUTFLength(s));
    UTFUtils.writeUTFBytes(this, s);
}

/** {@inheritDoc} */
public void flush() throws IOException {
    final int pos = position;
    final ByteOutput byteOutput = this.byteOutput;
    if (byteOutput != null) {
        if (pos > 0) {
            byteOutput.write(buffer, 0, pos);
        }
    }
}

```

```

    }
    position = 0;
    byteOutput.flush();
  }
}

/**
 * This shallow flush will write the internal buffer out to the {@code ByteOutput}, but will not flush it.
 *
 * @throws java.io.IOException if an I/O error occurs
 */
protected void shallowFlush() throws IOException {
    final int pos = position;
    final ByteOutput byteOutput = this.byteOutput;
    if (byteOutput != null) {
        if (pos > 0) {
            byteOutput.write(buffer, 0, pos);
        }
        position = 0;
    }
}

/**
 * Begin writing to a stream.
 *
 * @param byteOutput the new stream
 * @throws IOException if an error occurs
 */
protected void start(ByteOutput byteOutput) throws IOException {
    this.byteOutput = byteOutput;
    buffer = new byte[bufferSize];
}

/**
 * Finish writing to a stream. The stream is released.
 * No further writing may be done until the {@link #start(ByteOutput)} method is again invoked.
 *
 * @throws IOException if an error occurs
 */
protected void finish() throws IOException {
    try {
        flush();
    } finally {
        buffer = null;
        byteOutput = null;
    }
}
}

```

```

/**
 * {@inheritDoc}
 */
public void close() throws IOException {
    flush();
    byteOutput.close();
}
}
/*
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 */

```

```
package org.jboss.marshalling;
```

```
import java.io.IOException;
```

```

/**
 * A limited byte input stream. Throws an exception if too many bytes are read.
 */

```

```

public class LimitedByteInput extends ByteArrayInputStream {
    private final long limit;
    private long count;

```

```

/**
 * Create a new instance.
 *
 * @param byteInput the byte input to read from
 * @param limit the maximum number of bytes to read
 */
public LimitedByteInput(final ByteInput byteInput, final long limit) {

```

```

    super(byteInput);
    this.limit = limit;
}

/** {@inheritDoc} */
public int read() throws IOException {
    final long count = this.count;
    if (count < limit) try {
        return super.read();
    } finally {
        this.count = count + 1;
    }
    throw new IOException("Limit exceeded");
}

/** {@inheritDoc} */
public int read(final byte[] b, final int off, final int len) throws IOException {
    final long count = this.count;
    final long limit = this.limit;
    final int ret;
    if (count >= limit) {
        throw new IOException("Limit exceeded");
    } else if (count + len >= limit) {
        int rem = (int) (limit - count);
        ret = super.read(b, off, rem);
    } else {
        ret = super.read(b, off, len);
    }
    this.count = count + (long) ret;
    return ret;
}

/** {@inheritDoc} */
public long skip(final long n) throws IOException {
    final long count = this.count;
    final long limit = this.limit;
    final long ret;
    if (count >= limit) {
        throw new IOException("Limit exceeded");
    } else if (count + n >= limit) {
        int rem = (int) (limit - count);
        ret = super.skip(rem);
    } else {
        ret = super.skip(n);
    }
    this.count = count + ret;
    return ret;
}

```

```

}
/*
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 * 02110-1301 USA, or see the FSF site: http://www.fsf.org.
 */

```

```
package org.jboss.marshalling;
```

```

/**
 * A class resolver which uses a predefined classloader.
 */
public class SimpleClassResolver extends AbstractClassResolver {
    private final ClassLoader classLoader;

    /**
     * Construct a new instance, specifying a classloader.
     *
     * @param classLoader the classloader to use
     */
    public SimpleClassResolver(final ClassLoader classLoader) {
        this(false, classLoader);
    }

    /**
     * Construct a new instance, specifying a classloader and a flag which determines whether { @code
serialVersionUID }
     * matching will be enforced.
     *
     * @param enforceSerialVersionUID { @code true } to throw an exception on unmatched { @code
serialVersionUID }
     * @param classLoader the classloader to use

```

```

*/
public SimpleClassResolver(final boolean enforceSerialVersionUID, final ClassLoader classLoader) {
    super(enforceSerialVersionUID);
    this.classLoader = classLoader;
}

/** {@inheritDoc} */
protected ClassLoader getClassLoader() {
    return classLoader;
}
}
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*/

package org.jboss.marshalling;

import java.io.DataInput;
import java.io.EOFException;
import java.io.IOException;

public class SimpleDataInput extends ByteArrayInputStream implements DataInput {

    protected final byte[] buffer;
    protected int position;
    protected int limit;

    public SimpleDataInput(int bufferSize) {
        this(bufferSize, null);
    }
}

```

```

public SimpleDataInput(int bufferSize, ByteInput byteInput) {
    super(byteInput);
    buffer = new byte[bufferSize];
    this.byteInput = byteInput;
}

public SimpleDataInput(final ByteInput byteInput) {
    this(8192, byteInput);
}

/** {@inheritDoc} */
public int read() throws IOException {
    final int limit = this.limit;
    if (limit == -1) {
        return -1;
    }
    final int position = this.position;
    final byte[] buffer = this.buffer;
    if (position == limit) {
        if ((this.limit = byteInput.read(buffer)) == -1) {
            this.position = 0;
            return -1;
        } else {
            this.position = 1;
            return buffer[0] & 0xff;
        }
    } else {
        this.position = position + 1;
        return buffer[position] & 0xff;
    }
}

/** {@inheritDoc} */
public int read(final byte[] b) throws IOException {
    return read(b, 0, b.length);
}

/** {@inheritDoc} */
public int read(final byte[] b, final int off, final int len) throws IOException {
    final int limit = this.limit;
    if (limit == -1) {
        return -1;
    }
    final int position = this.position;
    final int remaining = limit - position;
    // pass through if the buffer is empty
    if (remaining == 0) {

```

```

        return byteInput.read(b, off, len);
    }
    final byte[] buffer = this.buffer;
    if (len > remaining) {
        System.arraycopy(buffer, position, b, off, remaining);
        this.limit = this.position = 0;
        final int res = byteInput.read(b, off + remaining, len - remaining);
        return res == -1 ? remaining : res + remaining;
    } else {
        System.arraycopy(buffer, position, b, off, len);
        this.position += len;
        return len;
    }
}

/** {@inheritDoc} */
public long skip(final long n) throws IOException {
    if (n < 0) {
        throw new IllegalArgumentException("n < 0");
    }
    final int limit = this.limit;
    if (limit == -1) {
        return 0L;
    }
    final long remaining = limit - position;
    if (remaining > n) {
        position += (int) n;
        return n;
    } else {
        position = this.limit = 0;
        return byteInput.skip(n - remaining) + remaining;
    }
}

/** {@inheritDoc} */
public int available() throws IOException {
    return limit - position + byteInput.available();
}

private static EOFException eofOnRead() {
    return new EOFException("Read past end of file");
}

/** {@inheritDoc} */
public void readFully(final byte[] b) throws IOException {
    readFully(b, 0, b.length);
}

```



```

/** {@inheritDoc} */
public void readFully(final byte[] b, int off, int len) throws IOException {
    if (limit == -1) {
        throw eofOnRead();
    }
    final int position = this.position;
    int remaining = limit - position;
    if (len > remaining) {
        if (remaining > 0) {
            System.arraycopy(buffer, position, b, off, remaining);
            limit = this.position = 0;
            off += remaining;
            len -= remaining;
        }
        final ByteInput byteInput = this.byteInput;
        do {
            remaining = byteInput.read(b, off, len);
            if (remaining == -1) {
                throw eofOnRead();
            }
            off += remaining;
            len -= remaining;
        } while (len != 0);
    } else try {
        System.arraycopy(buffer, position, b, off, len);
        this.position = position + len;
    } catch (NullPointerException e) {
        throw eofOnRead();
    }
}

```

```

/** {@inheritDoc} */
public int skipBytes(final int n) throws IOException {
    if (n < 0) {
        throw new IllegalArgumentException("n < 0");
    }
    final int limit = this.limit;
    if (limit == -1) {
        return 0;
    }
    final int remaining = limit - position;
    if (remaining > n) {
        position += n;
        return n;
    } else {
        position = this.limit = 0;
        return (int) (byteInput.skip(n - remaining) + remaining);
    }
}

```

```

}

/** {@inheritDoc} */
public boolean readBoolean() throws IOException {
    final int limit = this.limit;
    if (limit == -1) {
        throw eofOnRead();
    }
    int position;
    final byte[] buffer = this.buffer;
    if ((position = this.position++) == limit) {
        this.position = 1;
        if ((this.limit = byteInput.read(buffer)) == -1) {
            throw eofOnRead();
        }
        return buffer[0] != 0;
    }
    this.position = position + 1;
    return buffer[position] != 0;
}

/** {@inheritDoc} */
public byte readByte() throws IOException {
    final int limit;
    if ((limit = this.limit) == -1) {
        throw eofOnRead();
    }
    int position;
    final byte[] buffer = this.buffer;
    if ((position = this.position++) == limit) {
        this.position = 1;
        if ((this.limit = byteInput.read(buffer)) == -1) {
            throw eofOnRead();
        }
        return buffer[0];
    }
    this.position = position + 1;
    return buffer[position];
}

/** {@inheritDoc} */
public int readUnsignedByte() throws IOException {
    return readUnsignedByteDirect();
}

/** {@inheritDoc} */
public short readShort() throws IOException {
    int position = this.position;

```

```

int remaining = limit - position;
if (remaining < 2) {
    return (short) (readUnsignedByteDirect() << 8 | readUnsignedByteDirect());
} else {
    final byte[] buffer = this.buffer;
    this.position = position + 2;
    return (short) (buffer[position] << 8 | (buffer[position + 1] & 0xff));
}
}

```

```

/** {@inheritDoc} */

```

```

public int readUnsignedShort() throws IOException {
    int position = this.position;
    int remaining = limit - position;
    if (remaining < 2) {
        return readUnsignedByteDirect() << 8 | readUnsignedByteDirect();
    } else {
        final byte[] buffer = this.buffer;
        this.position = position + 2;
        return (buffer[position] & 0xff) << 8 | (buffer[position + 1] & 0xff);
    }
}

```

```

protected int readUnsignedByteDirect() throws IOException {
    final int limit;
    if ((limit = this.limit) == -1) {
        throw eofOnRead();
    }
    int position;
    final byte[] buffer = this.buffer;
    if ((position = this.position++) == limit) {
        this.position = 1;
        if ((this.limit = byteInput.read(buffer)) == -1) {
            throw eofOnRead();
        }
        return buffer[0] & 0xff;
    }
    return buffer[position] & 0xff;
}

```

```

/** {@inheritDoc} */

```

```

public char readChar() throws IOException {
    int position = this.position;
    int remaining = limit - position;
    if (remaining < 2) {
        return (char) (readUnsignedByteDirect() << 8 | readUnsignedByteDirect());
    } else {
        final byte[] buffer = this.buffer;

```

```

        this.position = position + 2;
        return (char) (buffer[position] << 8 | (buffer[position + 1] & 0xff));
    }
}

/** {@inheritDoc} */
public int readInt() throws IOException {
    return readIntDirect();
}

public long readLong() throws IOException {
    return readLongDirect();
}

/** {@inheritDoc} */
protected long readLongDirect() throws IOException {
    return (long) readIntDirect() << 32L | (long) readIntDirect() & 0xffffffffL;
}

/** {@inheritDoc} */
public float readFloat() throws IOException {
    return Float.intBitsToFloat(readIntDirect());
}

protected int readIntDirect() throws IOException {
    int position = this.position;
    int remaining = limit - position;
    if (remaining < 4) {
        return readUnsignedByteDirect() << 24 | readUnsignedByteDirect() << 16 | readUnsignedByteDirect() << 8 |
readUnsignedByteDirect();
    } else {
        final byte[] buffer = this.buffer;
        this.position = position + 4;
        return buffer[position] << 24 | (buffer[position + 1] & 0xff) << 16 | (buffer[position + 2] & 0xff) << 8 |
(buffer[position + 3] & 0xff);
    }
}

/** {@inheritDoc} */
public double readDouble() throws IOException {
    return Double.longBitsToDouble(readLongDirect());
}

/** {@inheritDoc} */
public String readLine() throws IOException {
    throw new UnsupportedOperationException("readLine() not supported");
}

```

```

/** {@inheritDoc} */
public String readUTF() throws IOException {
    return UTFUtils.readUTFBytesByByteCount(this, readUnsignedShort());
}

public void close() throws IOException {
    final ByteArrayInputStream byteInput = this.byteInput;
    if (byteInput != null) byteInput.close();
}

protected void start(final ByteArrayInputStream byteInput) throws IOException {
    this.byteInput = byteInput;
    position = limit = 0;
}

protected void finish() throws IOException {
    limit = -1;
    position = 0;
    byteInput = null;
}
}
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 * 02110-1301 USA, or see the FSF site: http://www.fsf.org.
 */

package org.jboss.marshalling;

import java.io.OutputStream;

/**

```

```
* A simple byte output which extends { @code OutputStream }.
*/
public abstract class SimpleByteOutput extends OutputStream implements ByteOutput {
}
```

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1.482 Maven-scm 1.7.0.wso2v2

1.482.1 Available under license :

package org.apache.maven.scm.provider.svn.svnexe.command.changelog;

/*

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* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/

```

/**
 * Thrown when the output of an svn log command isn't recognized.
 * @since 1.3
 */
@SuppressWarnings( "serial" )
public class IllegalOutputException
    extends RuntimeException
{

    /**
     * Create the exception with a message.
     *
     * @param message the message.
     */
    public IllegalOutputException( final String message )
    {
        super( message );
    }
}

```

1.483 maven-shared-io 1.1

1.483.1 Available under license :

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1.484 mesa 11.2.2 :2.20160614.el7

1.484.1 Available under license :

Subject: RE: Question about Mesa MLAA license
 From: Jorge Jimenez <iryoku@gmail.com>
 Date: 01/08/2013 12:50 PM
 To: Tom Callaway <tcallawa@redhat.com>
 CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
 Jorge

From: Tom Callaway <tcallawa@redhat.com>
 Sent: January 8, 2013 6:49 PM
 To: Jorge Jimenez <iryoku@gmail.com>
 CC: jorge@iryoku.com
 Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:

> Hi Tom,

>

> What we meant with that is that we made an exception for clause 2.

> Instead of clause 2, in the case of the Mesa project, you have to name

> the technique Jimenez's MLAA in the config options of Mesa. We did that

> just to allow them to solve license issues. This exception should be for

> the Mesa project, and any project using Mesa, like Fedora.

>

> We want to widespread usage of our MLAA, so we want to avoid any kind of

> license complications. Hope current one is good for Fedora, if not

> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:

"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default
quality". Is this in compliance with your exception?

Thanks again,

~tom

==

Fedora Project

Subject: RE: Question about Mesa MLAA license

From: Jorge Jimenez <iryoku@gmail.com>

Date: 01/08/2013 12:39 PM

To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2.

Instead of clause 2, in the case of the Mesa project, you have to name

the technique Jimenez's MLAA in the config options of Mesa. We did that

just to allow them to solve license issues. This exception should be for

the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

- * 2. Redistributions in binary form must reproduce the following statement:
- *
- * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
- *
- * Only for use in the Mesa project, this point 2 is filled by naming the
- * technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway

Fedora Legal

==

Fedora Project

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Version 2, June 1991

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1.487 mvel2 2.0.10.wso2v1

1.488 MXP1: Xml Pull Parser 3rd Edition (XPP3) 1.1.4c

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1.489 MyBatis 3.2.5

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Refactored SqlBuilder class (SQL, AbstractSQL)

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GIMP Palette

Name: Test Palette

Columns: 3

#

173 127 168 Plum

233 185 110 Chocolate

1 2 3 Untitled

1 2 3 Double

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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1.499 opensaml 2.4.1

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- */

```
package org.opensaml.common.binding.security;
```

```
import org.opensaml.common.binding.SAMLMessageContext;
import org.opensaml.security.MetadataCriteria;
import org.opensaml.ws.message.MessageContext;
import org.opensaml.ws.security.SecurityPolicyException;
import org.opensaml.ws.security.provider.BaseTrustEngineRule;
import org.opensaml.xml.security.CriteriaSet;
import org.opensaml.xml.security.credential.UsageType;
import org.opensaml.xml.security.criteria.EntityIDCriteria;
import org.opensaml.xml.security.criteria.UsageCriteria;
import org.opensaml.xml.security.trust.TrustEngine;
import org.opensaml.xml.signature.Signature;
import org.opensaml.xml.util.DatatypeHelper;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
```

```
/**
```

```
* Base class for SAML security policy rules which evaluate a signature with a signature trust engine.
```

```
*/
```

```
public abstract class BaseSAMLXMLSignatureSecurityPolicyRule extends BaseTrustEngineRule<Signature> {
```

```
    /** Logger. */
```

```
    private final Logger log = LoggerFactory.getLogger(BaseSAMLXMLSignatureSecurityPolicyRule.class);
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param engine Trust engine used to verify the signature
```

```
     */
```

```
    public BaseSAMLXMLSignatureSecurityPolicyRule(TrustEngine<Signature> engine) {
        super(engine);
    }
```

```
    /** {@inheritDoc} */
```

```
    protected CriteriaSet buildCriteriaSet(String entityID, MessageContext messageContext)
        throws SecurityPolicyException {
        if (!(messageContext instanceof SAMLMessageContext)) {
            log.error("Supplied message context was not an instance of SAMLMessageContext, can not build criteria set
from SAML metadata parameters");
            throw new SecurityPolicyException("Supplied message context was not an instance of
```

```

SAMLMessageContext");
    }

    SAMLMessageContext samlContext = (SAMLMessageContext) messageContext;

    CriteriaSet criteriaSet = new CriteriaSet();
    if (! DatatypeHelper.isEmpty(entityID)) {
        criteriaSet.add(new EntityIDCriteria(entityID) );
    }

    MetadataCriteria mdCriteria =
        new MetadataCriteria(samlContext.getPeerEntityRole(), samlContext.getInboundSAMLProtocol());
    criteriaSet.add(mdCriteria);

    criteriaSet.add( new UsageCriteria(UsageType.SIGNING) );

    return criteriaSet;
}

}
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 */

package org.opensaml.common.binding.security;

import org.opensaml.common.SAMLObject;
import org.opensaml.common.SignableSAMLObject;
import org.opensaml.common.binding.SAMLMessageContext;
import org.opensaml.security.SAMLSignatureProfileValidator;
import org.opensaml.ws.message.MessageContext;
import org.opensaml.ws.security.SecurityPolicyException;
import org.opensaml.xml.security.trust.TrustEngine;
import org.opensaml.xml.signature.Signature;
import org.opensaml.xml.validation.ValidationException;
import org.opensaml.xml.validation.Validator;

```

```

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * SAML security policy rule which validates the signature (if present) on the {@link SAMLObject} which
 * represents the
 * SAML protocol message being processed.
 *
 * <p>
 * If the message is not an instance of {@link SignableSAMLObject}, then no processing is performed. If signature
 * validation is successful, and the SAML message context issuer was not previously authenticated, then the context's
 * issuer authentication state will be set to <code>>true</code>.
 * </p>
 *
 * <p>
 * If an optional {@link Validator} for {@link Signature} objects is supplied, this validator will be used to validate
 * the XML Signature element prior to the actual cryptographic validation of the signature. This might for example
 * be
 * used to enforce certain signature profile requirements or to detect signatures upon which it would be unsafe to
 * attempt cryptographic processing. When using the single argument constructor form, the validator will default to
 * {@link SAMLSignatureProfileValidator}.
 * </p>
 */
public class SAMLProtocolMessageXMLSignatureSecurityPolicyRule extends
BaseSAMLXMLSignatureSecurityPolicyRule {

    /** Logger. */
    private final Logger log =
LoggerFactory.getLogger(SAMLProtocolMessageXMLSignatureSecurityPolicyRule.class);

    /** Validator for XML Signature instances. */
    private Validator<Signature> sigValidator;

    /**
     * Constructor.
     *
     * Signature pre-validator defaults to {@link SAMLSignatureProfileValidator}.
     *
     * @param engine Trust engine used to verify the signature
     */
    public SAMLProtocolMessageXMLSignatureSecurityPolicyRule(TrustEngine<Signature> engine) {
        super(engine);
        sigValidator = new SAMLSignatureProfileValidator();
    }

    /**
     * Constructor.
     *

```



```

* @param engine Trust engine used to verify the signature
* @param signatureValidator optional pre-validator used to validate Signature elements prior to the actual
*     cryptographic validation operation
*/
public SAMLProtocolMessageXMLSignatureSecurityPolicyRule(TrustEngine<Signature> engine,
    Validator<Signature> signatureValidator) {
    super(engine);
    sigValidator = signatureValidator;
}

/** {@inheritDoc} */
public void evaluate(MessageContext messageContext) throws SecurityPolicyException {
    if (!(messageContext instanceof SAMLMessageContext)) {
        log.debug("Invalid message context type, this policy rule only supports SAMLMessageContext");
        return;
    }

    SAMLMessageContext samlMsgCtx = (SAMLMessageContext) messageContext;

    SAMLObject samlMsg = samlMsgCtx.getInboundSAMLMessage();
    if (!(samlMsg instanceof SignableSAMLObject)) {
        log.debug("Extracted SAML message was not a SignableSAMLObject, can not process signature");
        return;
    }
    SignableSAMLObject signableObject = (SignableSAMLObject) samlMsg;
    if (!signableObject.isSigned()) {
        log.info("SAML protocol message was not signed, skipping XML signature processing");
        return;
    }
    Signature signature = signableObject.getSignature();

    performPreValidation(signature);

    doEvaluate(signature, signableObject, samlMsgCtx);
}

/**
 * Perform cryptographic validation and trust evaluation on the Signature token using the configured Signature
trust
 * engine.
 *
 * @param signature the signature which is being evaluated
 * @param signableObject the signable object which contained the signature
 * @param samlMsgCtx the SAML message context being processed
 * @throws SecurityPolicyException thrown if the signature fails validation
 */
protected void doEvaluate(Signature signature, SignableSAMLObject signableObject, SAMLMessageContext
samlMsgCtx)

```

```

throws SecurityPolicyException {

String contextIssuer = samlMsgCtx.getInboundMessageIssuer();
if (contextIssuer != null) {
    String msgType = signableObject.getElementQName().toString();
    log.debug("Attempting to verify signature on signed SAML protocol message using context issuer message
type: {}",
        msgType);

    if (evaluate(signature, contextIssuer, samlMsgCtx)) {
        log.info("Validation of protocol message signature succeeded, message type: {}", msgType);
        if (!samlMsgCtx.isInboundSAMLMessageAuthenticated()) {
            log.debug("Authentication via protocol message signature succeeded for context issuer entity ID {}",
                contextIssuer);
            samlMsgCtx.setInboundSAMLMessageAuthenticated(true);
        }
    } else {
        log.debug("Validation of protocol message signature failed for context issuer "" + contextIssuer
+ "", message type: " + msgType);
        throw new SecurityPolicyException("Validation of protocol message signature failed");
    }
} else {
    log.debug("Context issuer unavailable, can not attempt SAML protocol message signature validation");
    throw new SecurityPolicyException("Context issuer unavailable, can not validate signature");
}
}

/**
 * Get the validator used to perform pre-validation on Signature tokens.
 *
 * @return the configured Signature validator, or null
 */
protected Validator<Signature> getSignaturePrevalidator() {
    return sigValidator;
}

/**
 * Perform pre-validation on the Signature token.
 *
 * @param signature the signature to evaluate
 * @throws SecurityPolicyException thrown if the signature element fails pre-validation
 */
protected void performPreValidation(Signature signature) throws SecurityPolicyException {
    if (getSignaturePrevalidator() != null) {
        try {
            getSignaturePrevalidator().validate(signature);
        } catch (ValidationException e) {
            log.debug("Protocol message signature failed signature pre-validation", e);
        }
    }
}

```

```

        throw new SecurityPolicyException("Protocol message signature failed signature pre-validation", e);
    }
}
}
}
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 * limitations under the License.
 */

package org.opensaml.common.binding.security;

import java.util.List;

import javax.servlet.http.HttpServletRequest;

import org.opensaml.common.binding.SAMLMessageContext;
import org.opensaml.security.MetadataCriteria;
import org.opensaml.ws.message.MessageContext;
import org.opensaml.ws.security.SecurityPolicyException;
import org.opensaml.ws.security.SecurityPolicyRule;
import org.opensaml.ws.transport.http.HttpServletRequestAdapter;
import org.opensaml.xml.security.CriteriaSet;
import org.opensaml.xml.security.SecurityException;
import org.opensaml.xml.security.credential.Credential;
import org.opensaml.xml.security.credential.UsageType;
import org.opensaml.xml.security.criteria.EntityIDCriteria;
import org.opensaml.xml.security.criteria.UsageCriteria;
import org.opensaml.xml.signature.SignatureTrustEngine;
import org.opensaml.xml.util.Base64;
import org.opensaml.xml.util.DatatypeHelper;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Base class for security rules which verify simple "blob" signatures computed over some components of a request.
 */

```

```

public abstract class BaseSAMLSimpleSignatureSecurityPolicyRule implements SecurityPolicyRule {

    /** Logger. */
    private final Logger log = LoggerFactory.getLogger(BaseSAMLSimpleSignatureSecurityPolicyRule.class);

    /** Signature trust engine used to validate raw signatures. */
    private SignatureTrustEngine trustEngine;

    /**
     * Constructor.
     *
     * @param engine the signature trust engine to use for signature validation
     */
    protected BaseSAMLSimpleSignatureSecurityPolicyRule(SignatureTrustEngine engine) {
        trustEngine = engine;
    }

    /** {@inheritDoc} */
    public void evaluate(MessageContext messageContext) throws SecurityPolicyException {
        log.debug("Evaluating simple signature rule of type: {}", getClass().getName());
        if (!(messageContext instanceof SAMLMessageContext)) {
            log.debug("Invalid message context type, this policy rule only supports SAMLMessageContext");
            return;
        }

        if (!(messageContext.getInboundMessageTransport() instanceof HttpServletRequestAdapter)) {
            log.debug("Invalid inbound message transport type, this rule only supports HttpServletRequestAdapter");
            return;
        }

        SAMLMessageContext samlMsgCtx = (SAMLMessageContext) messageContext;
        HttpServletRequestAdapter requestAdapter = (HttpServletRequestAdapter) messageContext
            .getInboundMessageTransport();
        HttpServletRequest request = requestAdapter.getWrappedRequest();

        if (!ruleHandles(request, samlMsgCtx)) {
            log.debug("Rule can not handle this request, skipping processing");
            return;
        }

        byte[] signature = getSignature(request);
        if (signature == null || signature.length == 0) {
            log.debug("HTTP request was not signed via simple signature mechanism, skipping");
            return;
        }

        String sigAlg = getSignatureAlgorithm(request);
        if (DatatypeHelper.isEmpty(sigAlg)) {

```

```

        log.warn("Signature algorithm could not be extracted from request, can not validate simple signature");
        return;
    }

    byte[] signedContent = getSignedContent(request);
    if (signedContent == null || signedContent.length == 0) {
        log.warn("Signed content could not be extracted from HTTP request, can not validate");
        return;
    }

    doEvaluate(signature, signedContent, sigAlg, request, samlMsgCtx);
}

/**
 * Evaluate the simple signature based on information in the request and/or message context.
 *
 * @param signature the signature value
 * @param signedContent the content that was signed
 * @param algorithmURI the signature algorithm URI which was used to sign the content
 * @param request the HTTP servlet request being processed
 * @param samlMsgCtx the SAML message context being processed
 *
 * @throws SecurityPolicyException thrown if there are errors during the signature validation process
 */
private void doEvaluate(byte[] signature, byte[] signedContent, String algorithmURI, HttpServletRequest request,
    SAMLMessageContext samlMsgCtx) throws SecurityPolicyException {

    List<Credential> candidateCredentials = getRequestCredentials(request, samlMsgCtx);

    String contextIssuer = samlMsgCtx.getInboundMessageIssuer();

    if (contextIssuer != null) {
        log.debug("Attempting to validate SAML protocol message simple signature using context issuer: {}",
            contextIssuer);
        CriteriaSet criteriaSet = buildCriteriaSet(contextIssuer, samlMsgCtx);
        if (validateSignature(signature, signedContent, algorithmURI, criteriaSet, candidateCredentials)) {
            log.info("Validation of request simple signature succeeded");
            if (!samlMsgCtx.isInboundSAMLMessageAuthenticated()) {
                log.info("Authentication via request simple signature succeeded for context issuer entity ID {}",
                    contextIssuer);
                samlMsgCtx.setInboundSAMLMessageAuthenticated(true);
            }
            return;
        } else {
            log.warn("Validation of request simple signature failed for context issuer: {}", contextIssuer);
            throw new SecurityPolicyException("Validation of request simple signature failed for context issuer");
        }
    }
}

```

```

    }

    String derivedIssuer = deriveSignerEntityID(samlMsgCtx);
    if (derivedIssuer != null) {
        log.debug("Attempting to validate SAML protocol message simple signature using derived issuer: {}",
            derivedIssuer);
        CriteriaSet criteriaSet = buildCriteriaSet(derivedIssuer, samlMsgCtx);
        if (validateSignature(signature, signedContent, algorithmURI, criteriaSet, candidateCredentials)) {
            log.info("Validation of request simple signature succeeded");
            if (!samlMsgCtx.isInboundSAMLMessageAuthenticated()) {
                log.info("Authentication via request simple signature succeeded for derived issuer {}",
                    derivedIssuer);
                samlMsgCtx.setInboundMessageIssuer(derivedIssuer);
                samlMsgCtx.setInboundSAMLMessageAuthenticated(true);
            }
            return;
        } else {
            log.warn("Validation of request simple signature failed for derived issuer: {}", derivedIssuer);
            throw new SecurityPolicyException("Validation of request simple signature failed for derived issuer");
        }
    }

    log.warn("Neither context nor derived issuer available, can not attempt SAML simple signature validation");
    throw new SecurityPolicyException("No message issuer available, can not attempt simple signature
validation");
}

/**
 * Validate the simple signature.
 *
 * @param signature the signature value
 * @param signedContent the content that was signed
 * @param algorithmURI the signature algorithm URI which was used to sign the content
 * @param criteriaSet criteria used to describe and/or resolve the information which serves as the basis for trust
 *     evaluation
 * @param candidateCredentials the request-derived candidate credential(s) containing the validation key for the
 *     signature (optional)
 * @return true if signature can be verified successfully, false otherwise
 *
 * @throws SecurityPolicyException thrown if there are errors during the signature validation process
 *
 */
protected boolean validateSignature(byte[] signature, byte[] signedContent, String algorithmURI,
    CriteriaSet criteriaSet, List<Credential> candidateCredentials) throws SecurityPolicyException {

    SignatureTrustEngine engine = getTrustEngine();

    // Some bindings allow candidate signing credentials to be supplied (e.g. via ds:KeyInfo), some do not.

```

```

// So have 2 slightly different cases.
try {
    if (candidateCredentials == null || candidateCredentials.isEmpty()) {
        if (engine.validate(signature, signedContent, algorithmURI, criteriaSet, null)) {
            log.debug("Simple signature validation (with no request-derived credentials) was successful");
            return true;
        } else {
            log.warn("Simple signature validation (with no request-derived credentials) failed");
            return false;
        }
    } else {
        for (Credential cred : candidateCredentials) {
            if (engine.validate(signature, signedContent, algorithmURI, criteriaSet, cred)) {
                log.debug("Simple signature validation succeeded with a request-derived credential");
                return true;
            }
        }
        log.warn("Signature validation using request-derived credentials failed");
        return false;
    }
} catch (SecurityException e) {
    log.warn("There was an error evaluating the request's simple signature using the trust engine", e);
    throw new SecurityPolicyException("Error during trust engine evaluation of the simple signature", e);
}
}

/**
 * Extract any candidate validation credentials from the request and/or message context.
 *
 * Some bindings allow validation keys for the simple signature to be supplied, and others do not.
 *
 * @param request the HTTP servlet request being processed
 * @param samlContext the SAML message context being processed
 * @return a list of candidate validation credentials in the request, or null if none were present
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected List<Credential> getRequestCredentials(HttpServletRequest request, SAMLMessageContext
samlContext)
    throws SecurityPolicyException {
    // This will be specific to the binding and message types, so no default.
    return null;
}

/**
 * Gets the engine used to validate the signature.
 *
 * @return engine engine used to validate the signature
 */

```

```

protected SignatureTrustEngine getTrustEngine() {
    return trustEngine;
}

/**
 * Extract the signature value from the request, in the form suitable for input into
 * {@link SignatureTrustEngine#validate(byte[], byte[], String, CriteriaSet, Credential)}.
 *
 * Defaults to the Base64-decoded value of the HTTP request parameter named Signature.
 *
 * @param request the HTTP servlet request
 * @return the signature value
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected byte[] getSignature(HttpServletRequest request) throws SecurityPolicyException {
    String signature = request.getParameter("Signature");
    if (DatatypeHelper.isEmpty(signature)) {
        return null;
    }
    return Base64.decode(signature);
}

/**
 * Extract the signature algorithm URI value from the request.
 *
 * Defaults to the HTTP request parameter named SigAlg.
 *
 * @param request the HTTP servlet request
 * @return the signature algorithm URI value
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected String getSignatureAlgorithm(HttpServletRequest request) throws SecurityPolicyException {
    return request.getParameter("SigAlg");
}

/**
 * Derive the signer's entity ID from the message context.
 *
 * This is implementation-specific and there is no default. This is primarily an extension point for subclasses.
 *
 * @param samlContext the SAML message context being processed
 * @return the signer's derived entity ID
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected String deriveSignerEntityID(SAMLMessageContext samlContext) throws SecurityPolicyException {
    // No default
    return null;
}

```



```

/**
 * Build a criteria set suitable for input to the trust engine.
 *
 * @param entityID the candidate issuer entity ID which is being evaluated
 * @param samlContext the message context which is being evaluated
 * @return a newly constructly set of criteria suitable for the configured trust engine
 * @throws SecurityPolicyException thrown if criteria set can not be constructed
 */
protected CriteriaSet buildCriteriaSet(String entityID, SAMLMessageContext samlContext)
    throws SecurityPolicyException {

    CriteriaSet criteriaSet = new CriteriaSet();
    if (!DatatypeHelper.isEmpty(entityID)) {
        criteriaSet.add(new EntityIDCriteria(entityID));
    }

    MetadataCriteria mdCriteria = new MetadataCriteria(samlContext.getPeerEntityRole(), samlContext
        .getInboundSAMLProtocol());
    criteriaSet.add(mdCriteria);

    criteriaSet.add(new UsageCriteria(UsageType.SIGNING));

    return criteriaSet;
}

/**
 * Get the content over which to validate the signature, in the form suitable for input into
 * { @link SignatureTrustEngine#validate(byte[], byte[], String, CriteriaSet, Credential)}.
 *
 * @param request the HTTP servlet request being processed
 * @return the signed content extracted from the request, in the format suitable for input to the trust engine.
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected abstract byte[] getSignedContent(HttpServletRequest request) throws SecurityPolicyException;

/**
 * Determine whether the rule should handle the request, based on the unwrapped HTTP servlet request and/or
message
 * context.
 *
 * @param request the HTTP servlet request being processed
 * @param samlMsgCtx the SAML message context being processed
 * @return true if the rule should attempt to process the request, otherwise false
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected abstract boolean ruleHandles(HttpServletRequest request, SAMLMessageContext samlMsgCtx)
    throws SecurityPolicyException;

```

```

}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.StatusMessage;
import org.opensaml.xml.XMLObject;

/**
 * Concrete implementation of org.opensaml.saml1.core StatusMessage object
 */
public class StatusMessageImpl extends AbstractSAMLObject implements StatusMessage {

    /**
     * Contents of the element
     */
    private String message;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected StatusMessageImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */

```

```

public String getMessage() {
    return message;
}

/** {@inheritDoc} */
public void setMessage(String message) {
    this.message = prepareForAssignment(this.message, message);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return null;
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.AssertionIDReference;
import org.opensaml.xml.XMLObject;

/**
 * Concrete Implementation of {@link org.opensaml.saml1.core.AssertionIDReference} Object
 */
public class AssertionIDReferenceImpl extends AbstractSAMLObject implements AssertionIDReference {

    /** String to contain the NCName */
    private String NCName;

    /**
     * Constructor

```

```

*
* @param namespaceURI the namespace the element is in
* @param elementLocalName the local name of the XML element this Object represents
* @param namespacePrefix the prefix for the given namespace
*/
protected AssertionIDReferenceImpl(String namespaceURI, String elementLocalName, String namespacePrefix)
{
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public String getReference() {
    return NCName;
}

/** {@inheritDoc} */
public void setReference(String NCName) {
    this.NCName = prepareForAssignment(this.NCName, NCName);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return null;
}
}
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*/

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;

```

```

import org.opensaml.saml1.core.Subject;
import org.opensaml.saml1.core.SubjectStatement;
import org.opensaml.xml.XMLObject;

/**
 * Abstract type to implement SubjectStatementType
 */
public abstract class SubjectStatementImpl extends AbstractSAMLObject implements SubjectStatement {

    /** Contains the Subject subelement */
    private Subject subject;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected SubjectStatementImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public Subject getSubject() {
        return subject;
    }

    /** {@inheritDoc} */
    public void setSubject(Subject subject) throws IllegalArgumentException {
        this.subject = prepareForAssignment(this.subject, subject);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        if (subject == null) {
            return null;
        }

        List<XMLObject> children = new ArrayList<XMLObject>();
        children.add(subject);
        return Collections.unmodifiableList(children);
    }
}

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*/

```

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.List;
```

```
import javax.xml.namespace.QName;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
```

```
import org.opensaml.saml1.core.RespondWith;
```

```
import org.opensaml.xml.XMLObject;
```

```
/**
```

```
* Implementation of { @link RespondWith }.
```

```
*/
```

```
public class RespondWithImpl extends AbstractSAMLObject implements RespondWith {
```

```
    /** Value of this element. */
```

```
    private QName value;
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected RespondWithImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
```

```
        super(namespaceURI, elementLocalName, namespacePrefix);
```

```
    }
```

```
    /** { @inheritDoc } */
```

```
    public QName getValue() {
```

```
        return value;
```

```
    }
```

```
    /** { @inheritDoc } */
```

```
    public void setValue(QName newValue) {
```

```

        value = prepareElementContentForAssignment(value, newValue);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.AuthorityBinding;
import org.opensaml.xml.XMLObject;

/**
 * A concrete implementation of the {@link org.opensaml.saml1.core.SubjectLocality} interface
 */
public class AuthorityBindingImpl extends AbstractSAMLObject implements AuthorityBinding {

    /** The AuthorityKind */
    private QName authorityKind;

    /** The Location */
    private String location;

    /** The Binding */
    private String binding;

```

```

/**
 * Constructor.
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected AuthorityBindingImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public QName getAuthorityKind() {
    return authorityKind;
}

/** {@inheritDoc} */
public void setAuthorityKind(QName authorityKind) {
    this.authorityKind =
prepareAttributeValueForAssignment(AuthorityBinding.AUTHORITYKIND_ATTRIB_NAME,
    this.authorityKind, authorityKind);
}

/** {@inheritDoc} */
public String getLocation() {
    return location;
}

/** {@inheritDoc} */
public void setLocation(String location) {
    this.location = prepareForAssignment(this.location, location);
}

/** {@inheritDoc} */
public String getBinding() {
    return binding;
}

/** {@inheritDoc} */
public void setBinding(String binding) {
    this.binding = prepareForAssignment(this.binding, binding);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    // No children
    return null;
}

```



```

}
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 */

```

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
```

```
import javax.xml.namespace.QName;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.common.xml.SAMLConstants;
import org.opensaml.saml1.core.Assertion;
import org.opensaml.saml1.core.AssertionIDReference;
import org.opensaml.saml1.core.Evidence;
import org.opensaml.saml1.core.Evidentiary;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;
```

```
/**
 * Concrete implementation of the {@link org.opensaml.saml1.core.Evidence} interface.
 */
```

```
public class EvidenceImpl extends AbstractSAMLObject implements Evidence {
```

```
    /** The Evidentiary child elements. */
    private final IndexedXMLObjectChildrenList<Evidentiary> evidence;
```

```
    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */

```

```

*/
protected EvidenceImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    evidence = new IndexedXMLObjectChildrenList<Evidentiary>(this);
}

/** {@inheritDoc} */
public List<AssertionIDReference> getAssertionIDReferences() {
    QName qname = new QName(SAMLConstants.SAML1_NS,
AssertionIDReference.DEFAULT_ELEMENT_LOCAL_NAME);
    return (List<AssertionIDReference>) evidence.subList(qname);
}

/** {@inheritDoc} */
public List<Assertion> getAssertions() {
    QName qname = new QName(SAMLConstants.SAML1_NS,
Assertion.DEFAULT_ELEMENT_LOCAL_NAME);
    return (List<Assertion>) evidence.subList(qname);
}

/** {@inheritDoc} */
public List<Evidentiary> getEvidence() {
    return evidence;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    if (evidence.size() == 0) {
        return null;
    }

    ArrayList<XMLObject> list = new ArrayList<XMLObject>();
    list.addAll(evidence);

    return Collections.unmodifiableList(list);
}
}
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*/

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.ArrayList;  
import java.util.Collections;  
import java.util.List;
```

```
import org.joda.time.DateTime;  
import org.opensaml.saml1.core.AuthenticationStatement;  
import org.opensaml.saml1.core.AuthorityBinding;  
import org.opensaml.saml1.core.SubjectLocality;  
import org.opensaml.xml.XMLObject;  
import org.opensaml.xml.util.XMLObjectChildrenList;
```

```
/**
```

```
 * A Concrete implementation of the { @link org.opensaml.saml1.core.AuthenticationStatement } Interface  
 */
```

```
public class AuthenticationStatementImpl extends SubjectStatementImpl implements AuthenticationStatement {
```

```
    /** Contains the AuthenticationMethod attribute contents */
```

```
    private String authenticationMethod;
```

```
    /** Contains the AuthenticationMethod attribute contents */
```

```
    private DateTime authenticationInstant;
```

```
    /** Contains the SubjectLocality subelement */
```

```
    private SubjectLocality subjectLocality;
```

```
    /** Contains the AuthorityBinding subelements */
```

```
    private final XMLObjectChildrenList<AuthorityBinding> authorityBindings;
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected AuthenticationStatementImpl(String namespaceURI, String elementLocalName, String  
    namespacePrefix) {
```

```
        super(namespaceURI, elementLocalName, namespacePrefix);
```

```
        authorityBindings = new XMLObjectChildrenList<AuthorityBinding>(this);
```

```
    }
```

```

/** {@inheritDoc} */
public String getAuthenticationMethod() {
    return authenticationMethod;
}

/** {@inheritDoc} */
public void setAuthenticationMethod(String authenticationMethod) {
    this.authenticationMethod = prepareForAssignment(this.authenticationMethod, authenticationMethod);
}

/** {@inheritDoc} */
public DateTime getAuthenticationInstant() {
    return authenticationInstant;
}

/** {@inheritDoc} */
public void setAuthenticationInstant(DateTime authenticationInstant) {
    this.authenticationInstant = prepareForAssignment(this.authenticationInstant, authenticationInstant);
}

//
// Elements
//

/** {@inheritDoc} */
public SubjectLocality getSubjectLocality() {
    return subjectLocality;
}

/** {@inheritDoc} */
public void setSubjectLocality(SubjectLocality subjectLocality) throws IllegalArgumentException {
    this.subjectLocality = prepareForAssignment(this.subjectLocality, subjectLocality);
}

/** {@inheritDoc} */
public List<AuthorityBinding> getAuthorityBindings() {
    return authorityBindings;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    List<XMLObject> list = new ArrayList<XMLObject>(authorityBindings.size() + 2);

    if (super.getOrderedChildren() != null) {
        list.addAll(super.getOrderedChildren());
    }

    if (subjectLocality != null) {

```

```

        list.add(subjectLocality);
    }

    list.addAll(authorityBindings);

    if (list.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(list);
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Subject;
import org.opensaml.saml1.core.SubjectQuery;
import org.opensaml.xml.XMLObject;

/**
 * Concrete (but abstract) implementation of {@link org.opensaml.saml1.core.SubjectQuery} abstract type
 */
public abstract class SubjectQueryImpl extends AbstractSAMLObject implements SubjectQuery {

    /** Contains the Subject subelement */
    private Subject subject;

}

```

```

* Constructor.
*
* @param namespaceURI the namespace the element is in
* @param elementLocalName the local name of the XML element this Object represents
* @param namespacePrefix the prefix for the given namespace
*/
protected SubjectQueryImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public Subject getSubject() {
    return subject;
}

/** {@inheritDoc} */
public void setSubject(Subject subject) {
    this.subject = prepareForAssignment(this.subject, subject);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    if (subject == null) {
        return null;
    }

    List<XMLObject> children = new ArrayList<XMLObject>();
    children.add(subject);
    return Collections.unmodifiableList(children);
}
}
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*/

package org.opensaml.saml1.core.impl;

```

```

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.saml1.core.Assertion;
import org.opensaml.saml1.core.Response;
import org.opensaml.saml1.core.Status;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Implementation of the {@link org.opensaml.saml1.core.Response} Object
 */
public class ResponseImpl extends ResponseAbstractTypeImpl implements Response {

    /** Status associated with this element */
    private Status status = null;

    /** List of all the Assertions */
    private final XMLObjectChildrenList<Assertion> assertions;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected ResponseImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        assertions = new XMLObjectChildrenList<Assertion>(this);
    }

    /** {@inheritDoc} */
    public List<Assertion> getAssertions() {
        return assertions;
    }

    /** {@inheritDoc} */
    public Status getStatus() {
        return status;
    }

    /** {@inheritDoc} */
    public void setStatus(Status status) throws IllegalArgumentException {
        this.status = prepareForAssignment(this.status, status);
    }
}

```

```

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>(1 + assertions.size());

    if (super.getOrderedChildren() != null) {
        children.addAll(super.getOrderedChildren());
    }

    if (status != null) {
        children.add(status);
    }

    children.addAll(assertions);

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core ConfirmationMethod;
import org.opensaml.xml.XMLObject;

/**
 * Concrete Implementation of the {@link org.opensaml.saml1.core ConfirmationMethod} interface

```



```

*/
public class ConfirmationMethodImpl extends AbstractSAMLObject implements ConfirmationMethod {

    /** Contains the content string */
    private String confirmationMethod;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected ConfirmationMethodImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public String getConfirmationMethod() {
        return confirmationMethod;
    }

    /** {@inheritDoc} */
    public void setConfirmationMethod(String confirmationMethod) {
        this.confirmationMethod = prepareForAssignment(this.confirmationMethod, confirmationMethod);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}
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*/

```

```

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Audience;
import org.opensaml.saml1.core.AudienceRestrictionCondition;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Concrete implementation of the org.opensaml.saml1.core.AudienceRestrictionCondition
 */
public class AudienceRestrictionConditionImpl extends AbstractSAMLObject implements
AudienceRestrictionCondition {

    /** Audiences */
    private final XMLObjectChildrenList<Audience> audiences;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AudienceRestrictionConditionImpl(String namespaceURI, String elementLocalName, String
namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        audiences = new XMLObjectChildrenList<Audience>(this);
    }

    /** {@inheritDoc} */
    public List<Audience> getAudiences() {
        return audiences;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {

        if (audiences.size() == 0) {
            return null;
        }
        ArrayList<XMLObject> children = new ArrayList<XMLObject>(audiences);
        return Collections.unmodifiableList(children);
    }
}

```

```

}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.common.xml.SAMLConstants;
import org.opensaml.saml1.core.Action;
import org.opensaml.saml1.core.AuthorizationDecisionQuery;
import org.opensaml.saml1.core.Evidence;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Concrete implementation of the {@link org.opensaml.saml1.core.AuthorizationDecisionQuery} interface
 */
public class AuthorizationDecisionQueryImpl extends SubjectQueryImpl implements AuthorizationDecisionQuery
{

    /** Contains the resource attribute */
    private String resource;

    /** Contains all the Action child elements */
    private final XMLObjectChildrenList<Action> actions;

    /** Contains the Evidence child element */
    private Evidence evidence;

    /**
     * Constructor.
     */
}

```

```

* @param namespaceURI the namespace the element is in
* @param elementLocalName the local name of the XML element this Object represents
* @param namespacePrefix the prefix for the given namespace
*/
protected AuthorizationDecisionQueryImpl(String namespaceURI, String elementLocalName, String
namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    setElementNamespacePrefix(SAMLConstants.SAML1P_PREFIX);
    actions = new XMLObjectChildrenList<Action>(this);
}

/** {@inheritDoc} */
public String getResource() {
    return resource;
}

/** {@inheritDoc} */
public void setResource(String resource) {
    this.resource = prepareForAssignment(this.resource, resource);
}

/** {@inheritDoc} */
public List<Action> getActions() {
    return actions;
}

/** {@inheritDoc} */
public Evidence getEvidence() {
    return evidence;
}

/** {@inheritDoc} */
public void setEvidence(Evidence evidence) {
    this.evidence = prepareForAssignment(this.evidence, evidence);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    List<XMLObject> list = new ArrayList<XMLObject>(actions.size() + 2);

    if (super.getOrderedChildren() != null) {
        list.addAll(super.getOrderedChildren());
    }

    list.addAll(actions);
    if (evidence != null) {
        list.add(evidence);
    }
}

```

```

    if (list.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(list);
}
}
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package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.saml1.core.AttributeDesignator;
import org.opensaml.saml1.core.AttributeQuery;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Concrete implementation of the {@link org.opensaml.saml1.core.AttributeQuery} interface
 */
public class AttributeQueryImpl extends SubjectQueryImpl implements AttributeQuery {

    /** Contains the resource attribute */
    private String resource;

    /** Contains all the child AttributeDesignators */
    private final XMLObjectChildrenList<AttributeDesignator> attributeDesignators;

    /**
     * Constructor
     */

```

```

*
* @param namespaceURI the namespace the element is in
* @param elementLocalName the local name of the XML element this Object represents
* @param namespacePrefix the prefix for the given namespace
*/
protected AttributeQueryImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    attributeDesignators = new XMLObjectChildrenList<AttributeDesignator>(this);
}

/** {@inheritDoc} */
public String getResource() {
    return resource;
}

/** {@inheritDoc} */
public void setResource(String resource) {
    this.resource = prepareForAssignment(this.resource, resource);
}

/** {@inheritDoc} */
public List<AttributeDesignator> getAttributeDesignators() {
    return attributeDesignators;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    List<XMLObject> list = new ArrayList<XMLObject>(attributeDesignators.size() + 1);

    if (super.getOrderedChildren() != null) {
        list.addAll(super.getOrderedChildren());
    }

    list.addAll(attributeDesignators);
    return Collections.unmodifiableList(list);
}
}
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*/

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.Collections;  
import java.util.List;
```

```
import javax.xml.namespace.QName;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;  
import org.opensaml.saml1.core.StatusDetail;  
import org.opensaml.xml.XMLObject;  
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;
```

```
/**
```

```
 * Concrete implementation of { @link org.opensaml.saml2.core.StatusDetail }
```

```
*/
```

```
public class StatusDetailImpl extends AbstractSAMLObject implements StatusDetail {
```

```
    /** child "any" elements */
```

```
    private final IndexedXMLObjectChildrenList<XMLObject> unknownChildren;
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected StatusDetailImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {  
        super(namespaceURI, elementLocalName, namespacePrefix);  
        unknownChildren = new IndexedXMLObjectChildrenList<XMLObject>(this);  
    }
```

```
    /**
```

```
     * { @inheritDoc }
```

```
     */
```

```
    public List<XMLObject> getUnknownXMLObjects() {  
        return unknownChildren;  
    }
```

```
    /** { @inheritDoc } */
```

```
    public List<XMLObject> getUnknownXMLObjects(QName typeOrName) {  
        return (List<XMLObject>) unknownChildren.subList(typeOrName);  
    }
```

```

/**
 * {@inheritDoc}
 */
public List<XMLObject> getOrderedChildren() {
    return Collections.unmodifiableList(unknownChildren);
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.joda.time.DateTime;
import org.opensaml.common.SAMLVersion;
import org.opensaml.common.impl.AbstractSignableSAMLObject;
import org.opensaml.saml1.core.ResponseAbstractType;
import org.opensaml.xml.XMLObject;

/**
 * Abstract implementation of {@link org.opensaml.saml1.core.ResponseAbstractType} Object
 */
public abstract class ResponseAbstractTypeImpl extends AbstractSignableSAMLObject implements
ResponseAbstractType {

    /** Contains the ID */
    private String id;

    private SAMLVersion version;

    /** Contents of the InResponseTo attribute */
    private String inResponseTo = null;

```



```

/** Contents of the Date attribute */
private DateTime issueInstant = null;

/** Contents of the recipient attribute */
private String recipient = null;

/**
 * Constructor
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected ResponseAbstractTypeImpl(String namespaceURI, String elementLocalName, String namespacePrefix)
{
    super(namespaceURI, elementLocalName, namespacePrefix);
    version = SAMLVersion.VERSION_11;
}

/** {@inheritDoc} */
public String getID() {
    return id;
}

/** {@inheritDoc} */
public void setID(String id) {
    String oldID = this.id;
    this.id = prepareForAssignment(this.id, id);
    registerOwnID(oldID, this.id);
}

/** {@inheritDoc} */
public String getInResponseTo() {
    return inResponseTo;
}

/** {@inheritDoc} */
public void setInResponseTo(String inResponseTo) {
    this.inResponseTo = prepareForAssignment(this.inResponseTo, inResponseTo);
}

/** {@inheritDoc} */
public int getMinorVersion() {
    return version.getMinorVersion();
}

/** {@inheritDoc} */

```

```

public int getMajorVersion() {
    return version.getMajorVersion();
}

/** {@inheritDoc} */
public void setVersion(SAMLVersion newVersion) {
    version = prepareForAssignment(version, newVersion);
}

/** {@inheritDoc} */
public DateTime getIssueInstant() {

    return issueInstant;
}

/** {@inheritDoc} */
public void setIssueInstant(DateTime date) {
    this.issueInstant = prepareForAssignment(this.issueInstant, date);
}

/** {@inheritDoc} */
public String getRecipient() {
    return recipient;
}

/** {@inheritDoc} */
public void setRecipient(String recipient) {
    this.recipient = prepareForAssignment(this.recipient, recipient);
}

/** {@inheritDoc} */
public String getSignatureReferenceID(){
    return id;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    List<XMLObject> children = new ArrayList<XMLObject>();

    if(getSignature() != null){
        children.add(getSignature());
    }

    return Collections.unmodifiableList(children);
}
}
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```

```

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*/

```

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.List;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
```

```
import org.opensaml.saml1.core.AssertionArtifact;
```

```
import org.opensaml.xml.XMLObject;
```

```
/**
```

```
 * Concrete implementation if { @link org.opensaml.saml1.core.AssertionArtifact }
```

```
*/
```

```
public class AssertionArtifactImpl extends AbstractSAMLObject implements AssertionArtifact {
```

```
    /** The assertion artifact */
```

```
    private String assertionArtifact;
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected AssertionArtifactImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
```

```
        super(namespaceURI, elementLocalName, namespacePrefix);
```

```
    }
```

```
    /** { @inheritDoc } */
```

```
    public String getAssertionArtifact() {
```

```
        return assertionArtifact;
```

```
    }
```

```
    /** { @inheritDoc } */
```

```
    public void setAssertionArtifact(String assertionArtifact) {
```

```

        this.assertionArtifact = prepareForAssignment(this.assertionArtifact, assertionArtifact);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Status;
import org.opensaml.saml1.core.StatusCode;
import org.opensaml.saml1.core.StatusDetail;
import org.opensaml.saml1.core.StatusMessage;
import org.opensaml.xml.XMLObject;

/**
 * Concrete Implementation { @link org.opensaml.saml1.core.Status }
 */
public class StatusImpl extends AbstractSAMLObject implements Status {

    /** Representation of the StatusMessage element. */
    private StatusMessage statusMessage;

    /** Representation of the StatusCode element. */
    private StatusCode statusCode;

```

```

/** Representation of the StatusDetail element. */
private StatusDetail statusDetail;

/**
 * Constructor
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected StatusImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public StatusMessage getStatusMessage() {
    return statusMessage;
}

/** {@inheritDoc} */
public void setStatusMessage(StatusMessage statusMessage) throws IllegalArgumentException {
    this.statusMessage = prepareForAssignment(this.statusMessage, statusMessage);
}

/** {@inheritDoc} */
public StatusCode getStatusCode() {
    return statusCode;
}

/** {@inheritDoc} */
public void setStatusCode(StatusCode statusCode) throws IllegalArgumentException {
    this.statusCode = prepareForAssignment(this.statusCode, statusCode);
}

/** {@inheritDoc} */
public StatusDetail getStatusDetail() {
    return statusDetail;
}

/** {@inheritDoc} */
public void setStatusDetail(StatusDetail statusDetail) throws IllegalArgumentException {
    this.statusDetail = prepareForAssignment(this.statusDetail, statusDetail);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>(3);

```

```

    if (statusCode != null) {
        children.add(statusCode);
    }

    if (statusMessage != null) {
        children.add(statusMessage);
    }

    if (statusDetail != null) {
        children.add(statusDetail);
    }

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.DoNotCacheCondition;
import org.opensaml.xml.XMLObject;

/**
 * Concrete Implementation of a { @link org.opensaml.saml1.core.DoNotCacheCondition } Objects.
 */
public class DoNotCacheConditionImpl extends AbstractSAMLObject implements DoNotCacheCondition {

```

```

/**
 * Constructor.
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected DoNotCacheConditionImpl(String namespaceURI, String elementLocalName, String namespacePrefix)
{
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return null;
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.joda.time.DateTime;
import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.common.xml.SAMLCConstants;
import org.opensaml.saml1.core.AudienceRestrictionCondition;
import org.opensaml.saml1.core.Condition;
import org.opensaml.saml1.core.Conditions;
import org.opensaml.saml1.core.DoNotCacheCondition;

```

```

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;

/**
 * This is a concrete implementation of the {@link org.opensaml.saml1.core.Conditions} interface.
 */
public class ConditionsImpl extends AbstractSAMLObject implements Conditions {

    /** Value saved in the NotBefore attribute */
    private DateTime notBefore;

    /** Value saved in the NotOnOrAfter attribute */
    private DateTime notOnOrAfter;

    /** Set containing all the Conditions */
    private final IndexedXMLObjectChildrenList<Condition> conditions;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected ConditionsImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        conditions = new IndexedXMLObjectChildrenList<Condition>(this);
    }

    /** {@inheritDoc} */
    public DateTime getNotBefore() {
        return notBefore;
    }

    /** {@inheritDoc} */
    public void setNotBefore(DateTime notBefore) {
        this.notBefore = prepareForAssignment(this.notBefore, notBefore);
    }

    /** {@inheritDoc} */
    public DateTime getNotOnOrAfter() {
        return notOnOrAfter;
    }

    /** {@inheritDoc} */
    public void setNotOnOrAfter(DateTime notOnOrAfter) {
        this.notOnOrAfter = prepareForAssignment(this.notOnOrAfter, notOnOrAfter);
    }
}

```



```

/** {@inheritDoc} */
public List<Condition> getConditions() {
    return conditions;
}

/** {@inheritDoc} */
public List<Condition> getConditions(QName typeOrName) {
    return conditions;
}

/** {@inheritDoc} */
public List<AudienceRestrictionCondition> getAudienceRestrictionConditions() {
    QName qname = new QName(SAMLConstants.SAML1_NS,
AudienceRestrictionCondition.DEFAULT_ELEMENT_LOCAL_NAME);
    return (List<AudienceRestrictionCondition>) conditions.subList(qname);
}

/** {@inheritDoc} */
public List<DoNotCacheCondition> getDoNotCacheConditions() {
    QName qname = new QName(SAMLConstants.SAML1_NS,
DoNotCacheCondition.DEFAULT_ELEMENT_LOCAL_NAME);
    return (List<DoNotCacheCondition>) conditions.subList(qname);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    if (conditions.size() == 0) {
        return null;
    }
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();
    children.addAll(conditions);
    return Collections.unmodifiableList(children);
}
}
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```

```

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*/

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.saml1.core.AssertionArtifact;
import org.opensaml.saml1.core.AssertionIDReference;
import org.opensaml.saml1.core.AttributeQuery;
import org.opensaml.saml1.core.AuthenticationQuery;
import org.opensaml.saml1.core.AuthorizationDecisionQuery;
import org.opensaml.saml1.core.Query;
import org.opensaml.saml1.core.Request;
import org.opensaml.saml1.core.SubjectQuery;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Concrete implementation of {@link org.opensaml.saml1.core.Request}
 */
public class RequestImpl extends RequestAbstractTypeImpl implements Request {

    /** Saves the query (one of Query, SubjectQuery, AuthenticationQuery, AttributeQuery,
    AuthorizationDecisionQuery */
    private Query query;

    /** The List of AssertionIDReferences */
    private final XMLObjectChildrenList<AssertionIDReference> assertionIDReferences;

    /** The List of AssertionArtifacts */
    private final XMLObjectChildrenList<AssertionArtifact> assertionArtifacts;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected RequestImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        assertionIDReferences = new XMLObjectChildrenList<AssertionIDReference>(this);
        assertionArtifacts = new XMLObjectChildrenList<AssertionArtifact>(this);
    }
}

```

```

/** {@inheritDoc} */
public Query getQuery() {
    return query;
}

/** {@inheritDoc} */
public SubjectQuery getSubjectQuery() {
    return (query instanceof SubjectQuery ? (SubjectQuery) query : null);
}

/** {@inheritDoc} */
public AttributeQuery getAttributeQuery() {
    return (query instanceof AttributeQuery ? (AttributeQuery) query : null);
}

/** {@inheritDoc} */
public AuthenticationQuery getAuthenticationQuery() {
    return (query instanceof AuthenticationQuery ? (AuthenticationQuery) query : null);
}

/** {@inheritDoc} */
public AuthorizationDecisionQuery getAuthorizationDecisionQuery() {
    return (query instanceof AuthorizationDecisionQuery ? (AuthorizationDecisionQuery) query : null);
}

/** {@inheritDoc} */
public void setQuery(Query query) throws IllegalArgumentException {
    this.query = prepareForAssignment(this.query, query);
}

/** {@inheritDoc} */
public List<AssertionIDReference> getAssertionIDReferences() {
    return assertionIDReferences;
}

/** {@inheritDoc} */
public List<AssertionArtifact> getAssertionArtifacts() {
    return assertionArtifacts;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {

    List<XMLObject> list = new ArrayList<XMLObject>();

    if (super.getOrderedChildren() != null) {
        list.addAll(super.getOrderedChildren());
    }
}

```

```

    if (query != null) {
        list.add(query);
    }
    if (assertionIDReferences.size() != 0) {
        list.addAll(assertionIDReferences);
    }
    if (assertionArtifacts.size() != 0) {
        list.addAll(assertionArtifacts);
    }

    if (list.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(list);
}
}
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 */

/**
 *
 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.AttributeDesignator;
import org.opensaml.xml.XMLObject;

/**
 * Concrete Implementation of the {@link org.opensaml.saml1.core.AttributeDesignator} interface.
 */

```

```

public class AttributeDesignatorImpl extends AbstractSAMLObject implements AttributeDesignator {

    /** Contains the AttributeName */
    private String attributeName;

    /** Contains the AttributeNamespace */
    private String attributeNamespace;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AttributeDesignatorImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public String getAttributeName() {
        return attributeName;
    }

    /** {@inheritDoc} */
    public void setAttributeName(String attributeName) {
        this.attributeName = prepareForAssignment(this.attributeName, attributeName);
    }

    /** {@inheritDoc} */
    public String getAttributeNamespace() {
        return attributeNamespace;
    }

    /** {@inheritDoc} */
    public void setAttributeNamespace(String attributeNamespace) {
        this.attributeNamespace = prepareForAssignment(this.attributeNamespace, attributeNamespace);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}
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 */

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.List;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
```

```
import org.opensaml.saml1.core.Action;
```

```
import org.opensaml.xml.XMLObject;
```

```
/**
```

```
* Concrete implementation of {@link org.opensaml.saml1.core.Action}
```

```
*/
```

```
public class ActionImpl extends AbstractSAMLObject implements Action {
```

```
    /** Place to store the namespace */
```

```
    private String namespace;
```

```
    /** Where to store the contents */
```

```
    private String contents;
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected ActionImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
}
```

```
    /** {@inheritDoc} */
```

```
    public String getNamespace() {
        return namespace;
    }
}
```

```
    /** {@inheritDoc} */
```

```

public void setNamespace(String namespace) {
    this.namespace = prepareForAssignment(this.namespace, namespace);
}

/** {@inheritDoc} */
public String getContents() {
    return contents;
}

/** {@inheritDoc} */
public void setContents(String contents) {
    this.contents = prepareForAssignment(this.contents, contents);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    // No elements
    return null;
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.NameIdentifier;
import org.opensaml.xml.XMLObject;

/**
 * Complete implementation of {@link org.opensaml.saml1.core.impl.NameIdentifierImpl}
 */
public class NameIdentifierImpl extends AbstractSAMLObject implements NameIdentifier {

```

```

/** Contents of the NameQualifierAttribute */
String nameQualifier;

/** Contents of the Format */
String format;

/** Contents of the element body */
String nameIdentifier;

/**
 * Constructor
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected NameIdentifierImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public String getNameQualifier() {
    return nameQualifier;
}

/** {@inheritDoc} */
public String getFormat() {
    return this.format;
}

/** {@inheritDoc} */
public String getNameIdentifier() {
    return nameIdentifier;
}

/** {@inheritDoc} */
public void setNameQualifier(String nameQualifier) {
    this.nameQualifier = prepareForAssignment(this.nameQualifier, nameQualifier);
}

public void setFormat(String format) {
    this.format = prepareForAssignment(this.format, format);
}

public void setNameIdentifier(String nameIdentifier) {
    this.nameIdentifier = prepareForAssignment(this.nameIdentifier, nameIdentifier);
}

```



```

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return null;
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.Collections;
import java.util.List;

import org.opensaml.saml1.core.Attribute;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * A Concrete implementation of the {@link org.opensaml.saml1.core.Attribute} Interface
 */
public class AttributeImpl extends AttributeDesignatorImpl implements Attribute {

    /** Contains the AttributeValues */
    private final XMLObjectChildrenList<XMLObject> attributeValues;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AttributeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
}

```

```

        attributeValues = new XMLObjectChildrenList<XMLObject>(this);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getAttributeValues() {
        return attributeValues;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return Collections.unmodifiableList(attributeValues);
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Audience;
import org.opensaml.xml.XMLObject;

/**
 * Concrete class implementation of {@link org.opensaml.saml1.core.Audience}
 */
public class AudienceImpl extends AbstractSAMLObject implements Audience {

    /** String to hold the URI */
    private String uri;

    /**
     * Constructor
     */
}

```

```

* @param namespaceURI the namespace the element is in
* @param elementLocalName the local name of the XML element this Object represents
* @param namespacePrefix the prefix for the given namespace
*/
protected AudienceImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public String getUri() {
    return uri;
}

/** {@inheritDoc} */
public void setUri(String uri) {

    this.uri = prepareForAssignment(this.uri, uri);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return null;
}
}
/*
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*/

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.joda.time.DateTime;
import org.opensaml.common.SAMLVersion;

```

```

import org.opensaml.common.impl.AbstractSignableSAMLObject;
import org.opensaml.saml1.core.RequestAbstractType;
import org.opensaml.saml1.core.RespondWith;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Implementation of { @link org.opensaml.saml1.core.RequestAbstractType}.
 */
public abstract class RequestAbstractTypeImpl extends AbstractSignableSAMLObject implements
RequestAbstractType {

    /** Contains the ID */
    private String id;

    /** Containt the IssueInstant */
    private DateTime issueInstant;

    /** Version of this SAML message */
    private SAMLVersion version;

    /** Contains the respondWiths */
    public final XMLObjectChildrenList<RespondWith> respondWiths;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected RequestAbstractTypeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        version = SAMLVersion.VERSION_11;
        respondWiths = new XMLObjectChildrenList<RespondWith>(this);
    }

    /** {@inheritDoc} */
    public String getID() {
        return id;
    }

    /** {@inheritDoc} */
    public void setID(String id) {
        String oldID = this.id;
        this.id = prepareForAssignment(this.id, id);
        registerOwnID(oldID, this.id);
    }
}

```

```

/** {@inheritDoc} */
public int getMajorVersion() {
    return version.getMajorVersion();
}

/** {@inheritDoc} */
public int getMinorVersion() {
    return version.getMinorVersion();
}

/** {@inheritDoc} */
public void setVersion(SAMLVersion newVersion) {
    version = prepareForAssignment(version, newVersion);
}

/** {@inheritDoc} */
public DateTime getIssueInstant() {
    return issueInstant;
}

/** {@inheritDoc} */
public void setIssueInstant(DateTime instant) {
    this.issueInstant = prepareForAssignment(this.issueInstant, instant);
}

/** {@inheritDoc} */
public List<RespondWith> getRespondWiths() {
    return respondWiths;
}

/** {@inheritDoc} */
public String getSignatureReferenceID(){
    return id;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    List<XMLObject> children = new ArrayList<XMLObject>();

    children.addAll(respondWiths);

    if(getSignature() != null){
        children.add(getSignature());
    }

    return Collections.unmodifiableList(children);
}

```

```
}
```

1.500 opensaml 1.1.406

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```
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 */

package org.opensaml.common.binding.security;

import org.opensaml.common.binding.SAMLMessageContext;
import org.opensaml.security.MetadataCriteria;
import org.opensaml.ws.message.MessageContext;
import org.opensaml.ws.security.SecurityPolicyException;
import org.opensaml.ws.security.provider.BaseTrustEngineRule;
import org.opensaml.xml.security.CriteriaSet;
import org.opensaml.xml.security.credential.UsageType;
import org.opensaml.xml.security.criteria.EntityIDCriteria;
import org.opensaml.xml.security.criteria.UsageCriteria;
import org.opensaml.xml.security.trust.TrustEngine;
import org.opensaml.xml.signature.Signature;
import org.opensaml.xml.util.DatatypeHelper;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Base class for SAML security policy rules which evaluate a signature with a signature trust engine.
 */
public abstract class BaseSAMLXMLSignatureSecurityPolicyRule extends BaseTrustEngineRule<Signature> {

    /** Logger. */
    private final Logger log = LoggerFactory.getLogger(BaseSAMLXMLSignatureSecurityPolicyRule.class);

    /**
```

```

* Constructor.
*
* @param engine Trust engine used to verify the signature
*/
public BaseSAMLXMLSignatureSecurityPolicyRule(TrustEngine<Signature> engine) {
    super(engine);
}

/** {@inheritDoc} */
protected CriteriaSet buildCriteriaSet(String entityID, MessageContext messageContext)
    throws SecurityPolicyException {
    if (!(messageContext instanceof SAMLMessageContext)) {
        log.error("Supplied message context was not an instance of SAMLMessageContext, can not build criteria set
from SAML metadata parameters");
        throw new SecurityPolicyException("Supplied message context was not an instance of
SAMLMessageContext");
    }

    SAMLMessageContext samlContext = (SAMLMessageContext) messageContext;

    CriteriaSet criteriaSet = new CriteriaSet();
    if (!DatatypeHelper.isEmpty(entityID)) {
        criteriaSet.add(new EntityIDCriteria(entityID) );
    }

    MetadataCriteria mdCriteria =
        new MetadataCriteria(samlContext.getPeerEntityRole(), samlContext.getInboundSAMLProtocol());
    criteriaSet.add(mdCriteria);

    criteriaSet.add( new UsageCriteria(UsageType.SIGNING) );

    return criteriaSet;
}

}
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```

```

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*/

package org.opensaml.common.binding.security;

import org.opensaml.common.SAMLObject;
import org.opensaml.common.SignableSAMLObject;
import org.opensaml.common.binding.SAMLMessageContext;
import org.opensaml.security.SAMLSignatureProfileValidator;
import org.opensaml.ws.message.MessageContext;
import org.opensaml.ws.security.SecurityPolicyException;
import org.opensaml.xml.security.trust.TrustEngine;
import org.opensaml.xml.signature.Signature;
import org.opensaml.xml.validation.ValidationException;
import org.opensaml.xml.validation.Validator;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * SAML security policy rule which validates the signature (if present) on the {@link SAMLObject} which
 * represents the
 * SAML protocol message being processed.
 *
 * <p>
 * If the message is not an instance of {@link SignableSAMLObject}, then no processing is performed. If signature
 * validation is successful, and the SAML message context issuer was not previously authenticated, then the context's
 * issuer authentication state will be set to <code>true</code>.
 * </p>
 *
 * <p>
 * If an optional {@link Validator} for {@link Signature} objects is supplied, this validator will be used to validate
 * the XML Signature element prior to the actual cryptographic validation of the signature. This might for example
 * be
 * used to enforce certain signature profile requirements or to detect signatures upon which it would be unsafe to
 * attempt cryptographic processing. When using the single argument constructor form, the validator will default to
 * {@link SAMLSignatureProfileValidator}.
 * </p>
 */
public class SAMLProtocolMessageXMLSignatureSecurityPolicyRule extends
BaseSAMLXMLSignatureSecurityPolicyRule {

    /** Logger. */
    private final Logger log =
LoggerFactory.getLogger(SAMLProtocolMessageXMLSignatureSecurityPolicyRule.class);

    /** Validator for XML Signature instances. */
    private Validator<Signature> sigValidator;

```



```

/**
 * Constructor.
 *
 * Signature pre-validator defaults to { @link SAMLSignatureProfileValidator}.
 *
 * @param engine Trust engine used to verify the signature
 */
public SAMLProtocolMessageXMLSignatureSecurityPolicyRule(TrustEngine<Signature> engine) {
    super(engine);
    sigValidator = new SAMLSignatureProfileValidator();
}

/**
 * Constructor.
 *
 * @param engine Trust engine used to verify the signature
 * @param signatureValidator optional pre-validator used to validate Signature elements prior to the actual
 *     cryptographic validation operation
 */
public SAMLProtocolMessageXMLSignatureSecurityPolicyRule(TrustEngine<Signature> engine,
    Validator<Signature> signatureValidator) {
    super(engine);
    sigValidator = signatureValidator;
}

/** {@inheritDoc} */
public void evaluate(MessageContext messageContext) throws SecurityPolicyException {
    if (!(messageContext instanceof SAMLMessageContext)) {
        log.debug("Invalid message context type, this policy rule only supports SAMLMessageContext");
        return;
    }

    SAMLMessageContext samlMsgCtx = (SAMLMessageContext) messageContext;

    SAMLObject samlMsg = samlMsgCtx.getInboundSAMLMessage();
    if (!(samlMsg instanceof SignableSAMLObject)) {
        log.debug("Extracted SAML message was not a SignableSAMLObject, can not process signature");
        return;
    }
    SignableSAMLObject signableObject = (SignableSAMLObject) samlMsg;
    if (!signableObject.isSigned()) {
        log.info("SAML protocol message was not signed, skipping XML signature processing");
        return;
    }
    Signature signature = signableObject.getSignature();

    performPreValidation(signature);
}

```

```

doEvaluate(signature, signableObject, samlMsgCtx);
}

/**
 * Perform cryptographic validation and trust evaluation on the Signature token using the configured Signature
trust
 * engine.
 *
 * @param signature the signature which is being evaluated
 * @param signableObject the signable object which contained the signature
 * @param samlMsgCtx the SAML message context being processed
 * @throws SecurityPolicyException thrown if the signature fails validation
 */
protected void doEvaluate(Signature signature, SignableSAMLObject signableObject, SAMLMessageContext
samlMsgCtx)
    throws SecurityPolicyException {

    String contextIssuer = samlMsgCtx.getInboundMessageIssuer();
    if (contextIssuer != null) {
        String msgType = signableObject.getElementQName().toString();
        log.debug("Attempting to verify signature on signed SAML protocol message using context issuer message
type: {}",
                msgType);

        if (evaluate(signature, contextIssuer, samlMsgCtx)) {
            log.info("Validation of protocol message signature succeeded, message type: {}", msgType);
            if (!samlMsgCtx.isInboundSAMLMessageAuthenticated()) {
                log.debug("Authentication via protocol message signature succeeded for context issuer entity ID {}",
                        contextIssuer);
                samlMsgCtx.setInboundSAMLMessageAuthenticated(true);
            }
        } else {
            log.debug("Validation of protocol message signature failed for context issuer " + contextIssuer
                    + "", message type: " + msgType);
            throw new SecurityPolicyException("Validation of protocol message signature failed");
        }
    } else {
        log.debug("Context issuer unavailable, can not attempt SAML protocol message signature validation");
        throw new SecurityPolicyException("Context issuer unavailable, can not validate signature");
    }
}

/**
 * Get the validator used to perform pre-validation on Signature tokens.
 *
 * @return the configured Signature validator, or null
 */
protected Validator<Signature> getSignaturePrevalidator() {

```

```

    return sigValidator;
}

/**
 * Perform pre-validation on the Signature token.
 *
 * @param signature the signature to evaluate
 * @throws SecurityPolicyException thrown if the signature element fails pre-validation
 */
protected void performPreValidation(Signature signature) throws SecurityPolicyException {
    if (getSignaturePrevalidator() != null) {
        try {
            getSignaturePrevalidator().validate(signature);
        } catch (ValidationException e) {
            log.debug("Protocol message signature failed signature pre-validation", e);
            throw new SecurityPolicyException("Protocol message signature failed signature pre-validation", e);
        }
    }
}

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 * limitations under the License.
 */

package org.opensaml.common.binding.security;

import java.util.List;

import javax.servlet.http.HttpServletRequest;

import org.opensaml.common.binding.SAMLMessageContext;
import org.opensaml.security.MetadataCriteria;
import org.opensaml.ws.message.MessageContext;
import org.opensaml.ws.security.SecurityPolicyException;
import org.opensaml.ws.security.SecurityPolicyRule;
import org.opensaml.ws.transport.http.HttpServletRequestAdapter;

```

```

import org.opensaml.xml.security.CriteriaSet;
import org.opensaml.xml.security.SecurityException;
import org.opensaml.xml.security.credential.Credential;
import org.opensaml.xml.security.credential.UsageType;
import org.opensaml.xml.security.criteria.EntityIDCriteria;
import org.opensaml.xml.security.criteria.UsageCriteria;
import org.opensaml.xml.signature.SignatureTrustEngine;
import org.opensaml.xml.util.Base64;
import org.opensaml.xml.util.DatatypeHelper;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Base class for security rules which verify simple "blob" signatures computed over some components of a request.
 */
public abstract class BaseSAMLSimpleSignatureSecurityPolicyRule implements SecurityPolicyRule {

    /** Logger. */
    private final Logger log = LoggerFactory.getLogger(BaseSAMLSimpleSignatureSecurityPolicyRule.class);

    /** Signature trust engine used to validate raw signatures. */
    private SignatureTrustEngine trustEngine;

    /**
     * Constructor.
     *
     * @param engine the signature trust engine to use for signature validation
     */
    protected BaseSAMLSimpleSignatureSecurityPolicyRule(SignatureTrustEngine engine) {
        trustEngine = engine;
    }

    /** {@inheritDoc} */
    public void evaluate(MessageContext messageContext) throws SecurityPolicyException {
        log.debug("Evaluating simple signature rule of type: {}", getClass().getName());
        if (!(messageContext instanceof SAMLMessageContext)) {
            log.debug("Invalid message context type, this policy rule only supports SAMLMessageContext");
            return;
        }

        if (!(messageContext.getInboundMessageTransport() instanceof HttpServletRequestAdapter)) {
            log.debug("Invalid inbound message transport type, this rule only supports HttpServletRequestAdapter");
            return;
        }

        SAMLMessageContext samlMsgCtx = (SAMLMessageContext) messageContext;
        HttpServletRequestAdapter requestAdapter = (HttpServletRequestAdapter) messageContext
            .getInboundMessageTransport();
    }

```

```

HttpServletRequest request = requestAdapter.getWrappedRequest();

if (!ruleHandles(request, samlMsgCtx)) {
    log.debug("Rule can not handle this request, skipping processing");
    return;
}

byte[] signature = getSignature(request);
if (signature == null || signature.length == 0) {
    log.debug("HTTP request was not signed via simple signature mechanism, skipping");
    return;
}

String sigAlg = getSignatureAlgorithm(request);
if (DatatypeHelper.isEmpty(sigAlg)) {
    log.warn("Signature algorithm could not be extracted from request, can not validate simple signature");
    return;
}

byte[] signedContent = getSignedContent(request);
if (signedContent == null || signedContent.length == 0) {
    log.warn("Signed content could not be extracted from HTTP request, can not validate");
    return;
}

doEvaluate(signature, signedContent, sigAlg, request, samlMsgCtx);
}

/**
 * Evaluate the simple signature based on information in the request and/or message context.
 *
 * @param signature the signature value
 * @param signedContent the content that was signed
 * @param algorithmURI the signature algorithm URI which was used to sign the content
 * @param request the HTTP servlet request being processed
 * @param samlMsgCtx the SAML message context being processed
 *
 * @throws SecurityPolicyException thrown if there are errors during the signature validation process
 */
private void doEvaluate(byte[] signature, byte[] signedContent, String algorithmURI, HttpServletRequest request,
    SAMLMessageContext samlMsgCtx) throws SecurityPolicyException {

    List<Credential> candidateCredentials = getRequestCredentials(request, samlMsgCtx);

    String contextIssuer = samlMsgCtx.getInboundMessageIssuer();

    if (contextIssuer != null) {

```

```

log.debug("Attempting to validate SAML protocol message simple signature using context issuer: {}",
    contextIssuer);
CriteriaSet criteriaSet = buildCriteriaSet(contextIssuer, samlMsgCtx);
if (validateSignature(signature, signedContent, algorithmURI, criteriaSet, candidateCredentials)) {
    log.info("Validation of request simple signature succeeded");
    if (!samlMsgCtx.isInboundSAMLMessageAuthenticated()) {
        log.info("Authentication via request simple signature succeeded for context issuer entity ID {}",
            contextIssuer);
        samlMsgCtx.setInboundSAMLMessageAuthenticated(true);
    }
    return;
} else {
    log.warn("Validation of request simple signature failed for context issuer: {}", contextIssuer);
    throw new SecurityPolicyException("Validation of request simple signature failed for context issuer");
}
}

String derivedIssuer = deriveSignerEntityID(samlMsgCtx);
if (derivedIssuer != null) {
    log.debug("Attempting to validate SAML protocol message simple signature using derived issuer: {}",
        derivedIssuer);
    CriteriaSet criteriaSet = buildCriteriaSet(derivedIssuer, samlMsgCtx);
    if (validateSignature(signature, signedContent, algorithmURI, criteriaSet, candidateCredentials)) {
        log.info("Validation of request simple signature succeeded");
        if (!samlMsgCtx.isInboundSAMLMessageAuthenticated()) {
            log.info("Authentication via request simple signature succeeded for derived issuer {}",
                derivedIssuer);
            samlMsgCtx.setInboundMessageIssuer(derivedIssuer);
            samlMsgCtx.setInboundSAMLMessageAuthenticated(true);
        }
        return;
    } else {
        log.warn("Validation of request simple signature failed for derived issuer: {}", derivedIssuer);
        throw new SecurityPolicyException("Validation of request simple signature failed for derived issuer");
    }
}

log.warn("Neither context nor derived issuer available, can not attempt SAML simple signature validation");
throw new SecurityPolicyException("No message issuer available, can not attempt simple signature
validation");
}

/**
 * Validate the simple signature.
 *
 * @param signature the signature value
 * @param signedContent the content that was signed
 * @param algorithmURI the signature algorithm URI which was used to sign the content

```

```

* @param criteriaSet criteria used to describe and/or resolve the information which serves as the basis for trust
*   evaluation
* @param candidateCredentials the request-derived candidate credential(s) containing the validation key for the
*   signature (optional)
* @return true if signature can be verified successfully, false otherwise
*
* @throws SecurityPolicyException thrown if there are errors during the signature validation process
*
*/

```

```

protected boolean validateSignature(byte[] signature, byte[] signedContent, String algorithmURI,
    CriteriaSet criteriaSet, List<Credential> candidateCredentials) throws SecurityPolicyException {

```

```

    SignatureTrustEngine engine = getTrustEngine();

```

```

    // Some bindings allow candidate signing credentials to be supplied (e.g. via ds:KeyInfo), some do not.

```

```

    // So have 2 slightly different cases.

```

```

    try {
        if (candidateCredentials == null || candidateCredentials.isEmpty()) {
            if (engine.validate(signature, signedContent, algorithmURI, criteriaSet, null)) {
                log.debug("Simple signature validation (with no request-derived credentials) was successful");
                return true;
            } else {
                log.warn("Simple signature validation (with no request-derived credentials) failed");
                return false;
            }
        } else {
            for (Credential cred : candidateCredentials) {
                if (engine.validate(signature, signedContent, algorithmURI, criteriaSet, cred)) {
                    log.debug("Simple signature validation succeeded with a request-derived credential");
                    return true;
                }
            }
            log.warn("Signature validation using request-derived credentials failed");
            return false;
        }
    } catch (SecurityException e) {
        log.warn("There was an error evaluating the request's simple signature using the trust engine", e);
        throw new SecurityPolicyException("Error during trust engine evaluation of the simple signature", e);
    }
}

```

```

/**

```

```

* Extract any candidate validation credentials from the request and/or message context.

```

```

*

```

```

* Some bindings allow validation keys for the simple signature to be supplied, and others do not.

```

```

*

```

```

* @param request the HTTP servlet request being processed

```

```

* @param samlContext the SAML message context being processed

```

```

* @return a list of candidate validation credentials in the request, or null if none were present
* @throws SecurityPolicyException thrown if there is an error during request processing
*/
protected List<Credential> getRequestCredentials(HttpServletRequest request, SAMLMessageContext
samlContext)
    throws SecurityPolicyException {
    // This will be specific to the binding and message types, so no default.
    return null;
}

/**
* Gets the engine used to validate the signature.
*
* @return engine engine used to validate the signature
*/
protected SignatureTrustEngine getTrustEngine() {
    return trustEngine;
}

/**
* Extract the signature value from the request, in the form suitable for input into
* {@link SignatureTrustEngine#validate(byte[], byte[], String, CriteriaSet, Credential)}.
*
* Defaults to the Base64-decoded value of the HTTP request parameter named <code>Signature</code>.
*
* @param request the HTTP servlet request
* @return the signature value
* @throws SecurityPolicyException thrown if there is an error during request processing
*/
protected byte[] getSignature(HttpServletRequest request) throws SecurityPolicyException {
    String signature = request.getParameter("Signature");
    if (DatatypeHelper.isEmpty(signature)) {
        return null;
    }
    return Base64.decode(signature);
}

/**
* Extract the signature algorithm URI value from the request.
*
* Defaults to the HTTP request parameter named <code>SigAlg</code>.
*
* @param request the HTTP servlet request
* @return the signature algorithm URI value
* @throws SecurityPolicyException thrown if there is an error during request processing
*/
protected String getSignatureAlgorithm(HttpServletRequest request) throws SecurityPolicyException {
    return request.getParameter("SigAlg");
}

```



```

}

/**
 * Derive the signer's entity ID from the message context.
 *
 * This is implementation-specific and there is no default. This is primarily an extension point for subclasses.
 *
 * @param samlContext the SAML message context being processed
 * @return the signer's derived entity ID
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected String deriveSignerEntityID(SAMLMessageContext samlContext) throws SecurityPolicyException {
    // No default
    return null;
}

/**
 * Build a criteria set suitable for input to the trust engine.
 *
 * @param entityID the candidate issuer entity ID which is being evaluated
 * @param samlContext the message context which is being evaluated
 * @return a newly constructly set of criteria suitable for the configured trust engine
 * @throws SecurityPolicyException thrown if criteria set can not be constructed
 */
protected CriteriaSet buildCriteriaSet(String entityID, SAMLMessageContext samlContext)
    throws SecurityPolicyException {

    CriteriaSet criteriaSet = new CriteriaSet();
    if (!DatatypeHelper.isEmpty(entityID)) {
        criteriaSet.add(new EntityIDCriteria(entityID));
    }

    MetadataCriteria mdCriteria = new MetadataCriteria(samlContext.getPeerEntityRole(), samlContext
        .getInboundSAMLProtocol());
    criteriaSet.add(mdCriteria);

    criteriaSet.add(new UsageCriteria(UsageType.SIGNING));

    return criteriaSet;
}

/**
 * Get the content over which to validate the signature, in the form suitable for input into
 * {@link SignatureTrustEngine#validate(byte[], byte[], String, CriteriaSet, Credential)}.
 *
 * @param request the HTTP servlet request being processed
 * @return the signed content extracted from the request, in the format suitable for input to the trust engine.
 * @throws SecurityPolicyException thrown if there is an error during request processing

```

```

*/
protected abstract byte[] getSignedContent(HttpServletRequest request) throws SecurityPolicyException;

/**
 * Determine whether the rule should handle the request, based on the unwrapped HTTP servlet request and/or
message
 * context.
 *
 * @param request the HTTP servlet request being processed
 * @param samlMsgCtx the SAML message context being processed
 * @return true if the rule should attempt to process the request, otherwise false
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected abstract boolean ruleHandles(HttpServletRequest request, SAMLMessageContext samlMsgCtx)
    throws SecurityPolicyException;

}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.StatusMessage;
import org.opensaml.xml.XMLObject;

/**
 * Concrete implementation of org.opensaml.saml1.core StatusMessage object
 */
public class StatusMessageImpl extends AbstractSAMLObject implements StatusMessage {

/**
 * Contents of the element

```

```

*/
private String message;

/**
 * Constructor
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected StatusMessageImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public String getMessage() {
    return message;
}

/** {@inheritDoc} */
public void setMessage(String message) {
    this.message = prepareForAssignment(this.message, message);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return null;
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

```

```

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.AssertionIDReference;
import org.opensaml.xml.XMLObject;

/**
 * Concrete Implementation of {@link org.opensaml.saml1.core.AssertionIDReference} Object
 */
public class AssertionIDReferenceImpl extends AbstractSAMLObject implements AssertionIDReference {

    /** String to contain the NCName */
    private String NCName;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AssertionIDReferenceImpl(String namespaceURI, String elementLocalName, String namespacePrefix)
    {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public String getReference() {
        return NCName;
    }

    /** {@inheritDoc} */
    public void setReference(String NCName) {
        this.NCName = prepareForAssignment(this.NCName, NCName);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}
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```

```

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*/

```

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Subject;
import org.opensaml.saml1.core.SubjectStatement;
import org.opensaml.xml.XMLObject;
```

```
/**
```

```
* Abstract type to implement SubjectStatementType
*/
```

```
public abstract class SubjectStatementImpl extends AbstractSAMLObject implements SubjectStatement {
```

```
    /** Contains the Subject subelement */
```

```
    private Subject subject;
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected SubjectStatementImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

```

```
    /** {@inheritDoc} */
```

```
    public Subject getSubject() {
        return subject;
    }

```

```
    /** {@inheritDoc} */
```

```
    public void setSubject(Subject subject) throws IllegalArgumentException {
        this.subject = prepareForAssignment(this.subject, subject);
    }

```

```

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    if (subject == null) {
        return null;
    }

    List<XMLObject> children = new ArrayList<XMLObject>();
    children.add(subject);
    return Collections.unmodifiableList(children);
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.RespondWith;
import org.opensaml.xml.XMLObject;

/**
 * Implementation of {@link RespondWith}.
 */
public class RespondWithImpl extends AbstractSAMLObject implements RespondWith {

    /** Value of this element. */
    private QName value;

    /**
     * Constructor.
     */
}

```

```

* @param namespaceURI the namespace the element is in
* @param elementLocalName the local name of the XML element this Object represents
* @param namespacePrefix the prefix for the given namespace
*/
protected RespondWithImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public QName getValue() {
    return value;
}

/** {@inheritDoc} */
public void setValue(QName newValue) {
    value = prepareElementContentForAssignment(value, newValue);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return null;
}
}
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*/

package org.opensaml.saml1.core.impl;

import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.AuthorityBinding;
import org.opensaml.xml.XMLObject;

```

```

/**
 * A concrete implementation of the { @link org.opensaml.saml1.core.SubjectLocality } interface
 */
public class AuthorityBindingImpl extends AbstractSAMLObject implements AuthorityBinding {

    /** The AuthorityKind */
    private QName authorityKind;

    /** The Location */
    private String location;

    /** The Binding */
    private String binding;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AuthorityBindingImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** { @inheritDoc } */
    public QName getAuthorityKind() {
        return authorityKind;
    }

    /** { @inheritDoc } */
    public void setAuthorityKind(QName authorityKind) {
        this.authorityKind =
        prepareAttributeValueForAssignment(AuthorityBinding.AUTHORITYKIND_ATTRIB_NAME,
            this.authorityKind, authorityKind);
    }

    /** { @inheritDoc } */
    public String getLocation() {
        return location;
    }

    /** { @inheritDoc } */
    public void setLocation(String location) {
        this.location = prepareForAssignment(this.location, location);
    }
}

```



```

/** {@inheritDoc} */
public String getBinding() {
    return binding;
}

/** {@inheritDoc} */
public void setBinding(String binding) {
    this.binding = prepareForAssignment(this.binding, binding);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    // No children
    return null;
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.common.xml.SAMLCConstants;
import org.opensaml.saml1.core.Assertion;
import org.opensaml.saml1.core.AssertionIDReference;
import org.opensaml.saml1.core.Evidence;
import org.opensaml.saml1.core.Evidentiary;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;

```

```

/**
 * Concrete implementation of the { @link org.opensaml.saml1.core.Evidence } interface.
 */
public class EvidenceImpl extends AbstractSAMLObject implements Evidence {

    /** The Evidentiary child elements. */
    private final IndexedXMLObjectChildrenList<Evidentiary> evidence;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected EvidenceImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        evidence = new IndexedXMLObjectChildrenList<Evidentiary>(this);
    }

    /** {@inheritDoc} */
    public List<AssertionIDReference> getAssertionIDReferences() {
        QName qname = new QName(SAMLConstants.SAML1_NS,
            AssertionIDReference.DEFAULT_ELEMENT_LOCAL_NAME);
        return (List<AssertionIDReference>) evidence.subList(qname);
    }

    /** {@inheritDoc} */
    public List<Assertion> getAssertions() {
        QName qname = new QName(SAMLConstants.SAML1_NS,
            Assertion.DEFAULT_ELEMENT_LOCAL_NAME);
        return (List<Assertion>) evidence.subList(qname);
    }

    /** {@inheritDoc} */
    public List<Evidentiary> getEvidence() {
        return evidence;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        if (evidence.size() == 0) {
            return null;
        }

        ArrayList<XMLObject> list = new ArrayList<XMLObject>();
        list.addAll(evidence);
    }
}

```

```

        return Collections.unmodifiableList(list);
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.joda.time.DateTime;
import org.opensaml.saml1.core.AuthenticationStatement;
import org.opensaml.saml1.core.AuthorityBinding;
import org.opensaml.saml1.core.SubjectLocality;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * A Concrete implementation of the {@link org.opensaml.saml1.core.AuthenticationStatement} Interface
 */
public class AuthenticationStatementImpl extends SubjectStatementImpl implements AuthenticationStatement {

    /** Contains the AuthenticationMethod attribute contents */
    private String authenticationMethod;

    /** Contains the AuthenticationMethod attribute contents */
    private DateTime authenticationInstant;

    /** Contains the SubjectLocality subelement */
    private SubjectLocality subjectLocality;

    /** Contains the AuthorityBinding subelements */

```

```

private final XMLObjectChildrenList<AuthorityBinding> authorityBindings;

/**
 * Constructor.
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected AuthenticationStatementImpl(String namespaceURI, String elementLocalName, String
namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    authorityBindings = new XMLObjectChildrenList<AuthorityBinding>(this);
}

/** {@inheritDoc} */
public String getAuthenticationMethod() {
    return authenticationMethod;
}

/** {@inheritDoc} */
public void setAuthenticationMethod(String authenticationMethod) {
    this.authenticationMethod = prepareForAssignment(this.authenticationMethod, authenticationMethod);
}

/** {@inheritDoc} */
public DateTime getAuthenticationInstant() {
    return authenticationInstant;
}

/** {@inheritDoc} */
public void setAuthenticationInstant(DateTime authenticationInstant) {
    this.authenticationInstant = prepareForAssignment(this.authenticationInstant, authenticationInstant);
}

//
// Elements
//

/** {@inheritDoc} */
public SubjectLocality getSubjectLocality() {
    return subjectLocality;
}

/** {@inheritDoc} */
public void setSubjectLocality(SubjectLocality subjectLocality) throws IllegalArgumentException {
    this.subjectLocality = prepareForAssignment(this.subjectLocality, subjectLocality);
}

```

```

/** {@inheritDoc} */
public List<AuthorityBinding> getAuthorityBindings() {
    return authorityBindings;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    List<XMLObject> list = new ArrayList<XMLObject>(authorityBindings.size() + 2);

    if (super.getOrderedChildren() != null) {
        list.addAll(super.getOrderedChildren());
    }

    if (subjectLocality != null) {
        list.add(subjectLocality);
    }

    list.addAll(authorityBindings);

    if (list.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(list);
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

```

```

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Subject;
import org.opensaml.saml1.core.SubjectQuery;
import org.opensaml.xml.XMLObject;

/**
 * Concrete (but abstract) implementation of { @link org.opensaml.saml1.core.SubjectQuery } abstract type
 */
public abstract class SubjectQueryImpl extends AbstractSAMLObject implements SubjectQuery {

    /** Contains the Subject subelement */
    private Subject subject;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected SubjectQueryImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** { @inheritDoc } */
    public Subject getSubject() {
        return subject;
    }

    /** { @inheritDoc } */
    public void setSubject(Subject subject) {
        this.subject = prepareForAssignment(this.subject, subject);
    }

    /** { @inheritDoc } */
    public List<XMLObject> getOrderedChildren() {
        if (subject == null) {
            return null;
        }

        List<XMLObject> children = new ArrayList<XMLObject>();
        children.add(subject);
        return Collections.unmodifiableList(children);
    }
}
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```

```

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*/

```

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
```

```
import org.opensaml.saml1.core.Assertion;
import org.opensaml.saml1.core.Response;
import org.opensaml.saml1.core.Status;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;
```

```
/**
```

```
 * Implementation of the { @link org.opensaml.saml1.core.Response } Object
```

```
 */
```

```
public class ResponseImpl extends ResponseAbstractTypeImpl implements Response {
```

```
    /** Status associated with this element */
```

```
    private Status status = null;
```

```
    /** List of all the Assertions */
```

```
    private final XMLObjectChildrenList<Assertion> assertions;
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected ResponseImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
```

```
        super(namespaceURI, elementLocalName, namespacePrefix);
```

```
        assertions = new XMLObjectChildrenList<Assertion>(this);
```

```
    }
```

```

/** {@inheritDoc} */
public List<Assertion> getAssertions() {
    return assertions;
}

/** {@inheritDoc} */
public Status getStatus() {
    return status;
}

/** {@inheritDoc} */
public void setStatus(Status status) throws IllegalArgumentException {
    this.status = prepareForAssignment(this.status, status);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>(1 + assertions.size());

    if (super.getOrderedChildren() != null) {
        children.addAll(super.getOrderedChildren());
    }

    if (status != null) {
        children.add(status);
    }

    children.addAll(assertions);

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}
}
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*/
```

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.List;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
```

```
import org.opensaml.saml1.core ConfirmationMethod;
```

```
import org.opensaml.xml.XMLObject;
```

```
/**
```

```
 * Concrete Implementation of the {@link org.opensaml.saml1.core ConfirmationMethod} interface
```

```
*/
```

```
public class ConfirmationMethodImpl extends AbstractSAMLObject implements ConfirmationMethod {
```

```
    /** Contains the content string */
```

```
    private String confirmationMethod;
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected ConfirmationMethodImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
```

```
        super(namespaceURI, elementLocalName, namespacePrefix);
```

```
    }
```

```
    /** {@inheritDoc} */
```

```
    public String getConfirmationMethod() {
```

```
        return confirmationMethod;
```

```
    }
```

```
    /** {@inheritDoc} */
```

```
    public void setConfirmationMethod(String confirmationMethod) {
```

```
        this.confirmationMethod = prepareForAssignment(this.confirmationMethod, confirmationMethod);
```

```
    }
```

```
    /** {@inheritDoc} */
```

```
    public List<XMLObject> getOrderedChildren() {
```

```
        return null;
```

```
    }
```

```
}
```

```

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 */

```

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Audience;
import org.opensaml.saml1.core.AudienceRestrictionCondition;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;
```

```
/**
 * Concrete implementation of the org.opensaml.saml1.core.AudienceRestrictionCondition
 */
public class AudienceRestrictionConditionImpl extends AbstractSAMLObject implements
AudienceRestrictionCondition {
```

```
    /** Audiences */
    private final XMLObjectChildrenList<Audience> audiences;
```

```
    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
```

```
    protected AudienceRestrictionConditionImpl(String namespaceURI, String elementLocalName, String
namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        audiences = new XMLObjectChildrenList<Audience>(this);
    }

```

```

}

/** {@inheritDoc} */
public List<Audience> getAudiences() {
    return audiences;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {

    if (audiences.size() == 0) {
        return null;
    }
    ArrayList<XMLObject> children = new ArrayList<XMLObject>(audiences);
    return Collections.unmodifiableList(children);
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.common.xml.SAMLCConstants;
import org.opensaml.saml1.core.Action;
import org.opensaml.saml1.core.AuthorizationDecisionQuery;
import org.opensaml.saml1.core.Evidence;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Concrete implementation of the {@link org.opensaml.saml1.core.AuthorizationDecisionQuery} interface

```

```

*/
public class AuthorizationDecisionQueryImpl extends SubjectQueryImpl implements AuthorizationDecisionQuery
{

    /** Contains the resource attribute */
    private String resource;

    /** Contains all the Action child elements */
    private final XMLObjectChildrenList<Action> actions;

    /** Contains the Evidence child element */
    private Evidence evidence;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AuthorizationDecisionQueryImpl(String namespaceURI, String elementLocalName, String
namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        setElementNamespacePrefix(SAMLConstants.SAML1P_PREFIX);
        actions = new XMLObjectChildrenList<Action>(this);
    }

    /** {@inheritDoc} */
    public String getResource() {
        return resource;
    }

    /** {@inheritDoc} */
    public void setResource(String resource) {
        this.resource = prepareForAssignment(this.resource, resource);
    }

    /** {@inheritDoc} */
    public List<Action> getActions() {
        return actions;
    }

    /** {@inheritDoc} */
    public Evidence getEvidence() {
        return evidence;
    }

    /** {@inheritDoc} */

```

```

public void setEvidence(Evidence evidence) {
    this.evidence = prepareForAssignment(this.evidence, evidence);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    List<XMLObject> list = new ArrayList<XMLObject>(actions.size() + 2);

    if (super.getOrderedChildren() != null) {
        list.addAll(super.getOrderedChildren());
    }

    list.addAll(actions);
    if (evidence != null) {
        list.add(evidence);
    }

    if (list.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(list);
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.saml1.core.AttributeDesignator;
import org.opensaml.saml1.core.AttributeQuery;

```

```

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Concrete implementation of the {@link org.opensaml.saml1.core.AttributeQuery} interface
 */
public class AttributeQueryImpl extends SubjectQueryImpl implements AttributeQuery {

    /** Contains the resource attribute */
    private String resource;

    /** Contains all the child AttributeDesignators */
    private final XMLObjectChildrenList<AttributeDesignator> attributeDesignators;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AttributeQueryImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        attributeDesignators = new XMLObjectChildrenList<AttributeDesignator>(this);
    }

    /** {@inheritDoc} */
    public String getResource() {
        return resource;
    }

    /** {@inheritDoc} */
    public void setResource(String resource) {
        this.resource = prepareForAssignment(this.resource, resource);
    }

    /** {@inheritDoc} */
    public List<AttributeDesignator> getAttributeDesignators() {
        return attributeDesignators;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        List<XMLObject> list = new ArrayList<XMLObject>(attributeDesignators.size() + 1);

        if (super.getOrderedChildren() != null) {
            list.addAll(super.getOrderedChildren());
        }
    }
}

```

```

        list.addAll(attributeDesignators);
        return Collections.unmodifiableList(list);
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.StatusDetail;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;

/**
 * Concrete implementation of {@link org.opensaml.saml2.core.StatusDetail}
 */
public class StatusDetailImpl extends AbstractSAMLObject implements StatusDetail {

    /** child "any" elements */
    private final IndexedXMLObjectChildrenList<XMLObject> unknownChildren;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
}

```

```

protected StatusDetailImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    unknownChildren = new IndexedXMLObjectChildrenList<XMLObject>(this);
}

/**
 * {@inheritDoc}
 */
public List<XMLObject> getUnknownXMLObjects() {
    return unknownChildren;
}

/** {@inheritDoc} */
public List<XMLObject> getUnknownXMLObjects(QName typeOrName) {
    return (List<XMLObject>) unknownChildren.subList(typeOrName);
}

/**
 * {@inheritDoc}
 */
public List<XMLObject> getOrderedChildren() {
    return Collections.unmodifiableList(unknownChildren);
}
}

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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.joda.time.DateTime;
import org.opensaml.common.SAMLVersion;
import org.opensaml.common.impl.AbstractSignableSAMLObject;

```



```

import org.opensaml.saml1.core.ResponseAbstractType;
import org.opensaml.xml.XMLObject;

/**
 * Abstract implementation of { @link org.opensaml.saml1.core.ResponseAbstractType } Object
 */
public abstract class ResponseAbstractTypeImpl extends AbstractSignableSAMLObject implements
ResponseAbstractType {

    /** Contains the ID */
    private String id;

    private SAMLVersion version;

    /** Contents of the InResponseTo attribute */
    private String inResponseTo = null;

    /** Contents of the Date attribute */
    private DateTime issueInstant = null;

    /** Contents of the recipient attribute */
    private String recipient = null;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected ResponseAbstractTypeImpl(String namespaceURI, String elementLocalName, String namespacePrefix)
    {
        super(namespaceURI, elementLocalName, namespacePrefix);
        version = SAMLVersion.VERSION_11;
    }

    /** {@inheritDoc} */
    public String getID() {
        return id;
    }

    /** {@inheritDoc} */
    public void setID(String id) {
        String oldID = this.id;
        this.id = prepareForAssignment(this.id, id);
        registerOwnID(oldID, this.id);
    }
}

```

```

/** {@inheritDoc} */
public String getInResponseTo() {
    return inResponseTo;
}

/** {@inheritDoc} */
public void setInResponseTo(String inResponseTo) {
    this.inResponseTo = prepareForAssignment(this.inResponseTo, inResponseTo);
}

/** {@inheritDoc} */
public int getMinorVersion() {
    return version.getMinorVersion();
}

/** {@inheritDoc} */
public int getMajorVersion() {
    return version.getMajorVersion();
}

/** {@inheritDoc} */
public void setVersion(SAMLVersion newVersion) {
    version = prepareForAssignment(version, newVersion);
}

/** {@inheritDoc} */
public DateTime getIssueInstant() {

    return issueInstant;
}

/** {@inheritDoc} */
public void setIssueInstant(DateTime date) {
    this.issueInstant = prepareForAssignment(this.issueInstant, date);
}

/** {@inheritDoc} */
public String getRecipient() {
    return recipient;
}

/** {@inheritDoc} */
public void setRecipient(String recipient) {
    this.recipient = prepareForAssignment(this.recipient, recipient);
}

/** {@inheritDoc} */
public String getSignatureReferenceID(){

```

```

        return id;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        List<XMLObject> children = new ArrayList<XMLObject>();

        if(getSignature() != null){
            children.add(getSignature());
        }

        return Collections.unmodifiableList(children);
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.AssertionArtifact;
import org.opensaml.xml.XMLObject;

/**
 * Concrete implementation if {@link org.opensaml.saml1.core.AssertionArtifact}
 */
public class AssertionArtifactImpl extends AbstractSAMLObject implements AssertionArtifact {

    /** The assertion artifact */
    private String assertionArtifact;

    /**
     * Constructor
     */

```

```

*
* @param namespaceURI the namespace the element is in
* @param elementLocalName the local name of the XML element this Object represents
* @param namespacePrefix the prefix for the given namespace
*/
protected AssertionArtifactImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public String getAssertionArtifact() {
    return assertionArtifact;
}

/** {@inheritDoc} */
public void setAssertionArtifact(String assertionArtifact) {
    this.assertionArtifact = prepareForAssignment(this.assertionArtifact, assertionArtifact);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return null;
}
}
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*/

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Status;

```

```

import org.opensaml.saml1.core.StatusCode;
import org.opensaml.saml1.core.StatusDetail;
import org.opensaml.saml1.core.StatusMessage;
import org.opensaml.xml.XMLObject;

/**
 * Concrete Implementation { @link org.opensaml.saml1.core.Status }
 */
public class StatusImpl extends AbstractSAMLObject implements Status {

    /** Representation of the StatusMessage element. */
    private StatusMessage statusMessage;

    /** Representation of the StatusCode element. */
    private StatusCode statusCode;

    /** Representation of the StatusDetail element. */
    private StatusDetail statusDetail;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected StatusImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public StatusMessage getStatusMessage() {
        return statusMessage;
    }

    /** {@inheritDoc} */
    public void setStatusMessage(StatusMessage statusMessage) throws IllegalArgumentException {
        this.statusMessage = prepareForAssignment(this.statusMessage, statusMessage);
    }

    /** {@inheritDoc} */
    public StatusCode getStatusCode() {
        return statusCode;
    }

    /** {@inheritDoc} */
    public void setStatusCode(StatusCode statusCode) throws IllegalArgumentException {
        this.statusCode = prepareForAssignment(this.statusCode, statusCode);
    }

```

```

}

/** {@inheritDoc} */
public StatusDetail getStatusDetail() {
    return statusDetail;
}

/** {@inheritDoc} */
public void setStatusDetail(StatusDetail statusDetail) throws IllegalArgumentException {
    this.statusDetail = prepareForAssignment(this.statusDetail, statusDetail);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>(3);

    if (statusCode != null) {
        children.add(statusCode);
    }

    if (statusMessage != null) {
        children.add(statusMessage);
    }

    if (statusDetail != null) {
        children.add(statusDetail);
    }

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}
}
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```

```

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*/

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.DoNotCacheCondition;
import org.opensaml.xml.XMLObject;

/**
 * Concrete Implementation of a { @link org.opensaml.saml1.core.DoNotCacheCondition } Objects.
 */
public class DoNotCacheConditionImpl extends AbstractSAMLObject implements DoNotCacheCondition {

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected DoNotCacheConditionImpl(String namespaceURI, String elementLocalName, String namespacePrefix)
    {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** { @inheritDoc } */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}

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*/

```

```

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.joda.time.DateTime;
import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.common.xml.SAMLConstants;
import org.opensaml.saml1.core.AudienceRestrictionCondition;
import org.opensaml.saml1.core.Condition;
import org.opensaml.saml1.core.Conditions;
import org.opensaml.saml1.core.DoNotCacheCondition;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;

/**
 * This is a concrete implementation of the { @link org.opensaml.saml1.core.Conditions } interface.
 */
public class ConditionsImpl extends AbstractSAMLObject implements Conditions {

    /** Value saved in the NotBefore attribute */
    private DateTime notBefore;

    /** Value saved in the NotOnOrAfter attribute */
    private DateTime notOnOrAfter;

    /** Set containing all the Conditions */
    private final IndexedXMLObjectChildrenList<Condition> conditions;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected ConditionsImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        conditions = new IndexedXMLObjectChildrenList<Condition>(this);
    }

    /** { @inheritDoc } */
    public DateTime getNotBefore() {
        return notBefore;
    }

```



```

}

/** {@inheritDoc} */
public void setNotBefore(DateTime notBefore) {
    this.notBefore = prepareForAssignment(this.notBefore, notBefore);
}

/** {@inheritDoc} */
public DateTime getNotOnOrAfter() {
    return notOnOrAfter;
}

/** {@inheritDoc} */
public void setNotOnOrAfter(DateTime notOnOrAfter) {
    this.notOnOrAfter = prepareForAssignment(this.notOnOrAfter, notOnOrAfter);
}

/** {@inheritDoc} */
public List<Condition> getConditions() {
    return conditions;
}

/** {@inheritDoc} */
public List<Condition> getConditions(QName typeOrName) {
    return conditions;
}

/** {@inheritDoc} */
public List<AudienceRestrictionCondition> getAudienceRestrictionConditions() {
    QName qname = new QName(SAMLConstants.SAML1_NS,
AudienceRestrictionCondition.DEFAULT_ELEMENT_LOCAL_NAME);
    return (List<AudienceRestrictionCondition>) conditions.subList(qname);
}

/** {@inheritDoc} */
public List<DoNotCacheCondition> getDoNotCacheConditions() {
    QName qname = new QName(SAMLConstants.SAML1_NS,
DoNotCacheCondition.DEFAULT_ELEMENT_LOCAL_NAME);
    return (List<DoNotCacheCondition>) conditions.subList(qname);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    if (conditions.size() == 0) {
        return null;
    }
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();
    children.addAll(conditions);
}

```

```

        return Collections.unmodifiableList(children);
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.saml1.core.AssertionArtifact;
import org.opensaml.saml1.core.AssertionIDReference;
import org.opensaml.saml1.core.AttributeQuery;
import org.opensaml.saml1.core.AuthenticationQuery;
import org.opensaml.saml1.core.AuthorizationDecisionQuery;
import org.opensaml.saml1.core.Query;
import org.opensaml.saml1.core.Request;
import org.opensaml.saml1.core.SubjectQuery;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Concrete implementation of {@link org.opensaml.saml1.core.Request}
 */
public class RequestImpl extends RequestAbstractTypeImpl implements Request {

    /** Saves the query (one of Query, SubjectQuery, AuthenticationQuery, AttributeQuery,
    AuthorizationDecisionQuery */
    private Query query;

    /** The List of AssertionIDReferences */
    private final XMLObjectChildrenList<AssertionIDReference> assertionIDReferences;

```

```

/** The List of AssertionArtifacts */
private final XMLObjectChildrenList<AssertionArtifact> assertionArtifacts;

/**
 * Constructor
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected RequestImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    assertionIDReferences = new XMLObjectChildrenList<AssertionIDReference>(this);
    assertionArtifacts = new XMLObjectChildrenList<AssertionArtifact>(this);
}

/** {@inheritDoc} */
public Query getQuery() {
    return query;
}

/** {@inheritDoc} */
public SubjectQuery getSubjectQuery() {
    return (query instanceof SubjectQuery ? (SubjectQuery) query : null);
}

/** {@inheritDoc} */
public AttributeQuery getAttributeQuery() {
    return (query instanceof AttributeQuery ? (AttributeQuery) query : null);
}

/** {@inheritDoc} */
public AuthenticationQuery getAuthenticationQuery() {
    return (query instanceof AuthenticationQuery ? (AuthenticationQuery) query : null);
}

/** {@inheritDoc} */
public AuthorizationDecisionQuery getAuthorizationDecisionQuery() {
    return (query instanceof AuthorizationDecisionQuery ? (AuthorizationDecisionQuery) query : null);
}

/** {@inheritDoc} */
public void setQuery(Query query) throws IllegalArgumentException {
    this.query = prepareForAssignment(this.query, query);
}

/** {@inheritDoc} */
public List<AssertionIDReference> getAssertionIDReferences() {

```

```

    return assertionIDReferences;
}

/** {@inheritDoc} */
public List<AssertionArtifact> getAssertionArtifacts() {
    return assertionArtifacts;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {

    List<XMLObject> list = new ArrayList<XMLObject>();

    if (super.getOrderedChildren() != null) {
        list.addAll(super.getOrderedChildren());
    }
    if (query != null) {
        list.add(query);
    }
    if (assertionIDReferences.size() != 0) {
        list.addAll(assertionIDReferences);
    }
    if (assertionArtifacts.size() != 0) {
        list.addAll(assertionArtifacts);
    }

    if (list.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(list);
}
}
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 */

```

```

/**
 *
 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.AttributeDesignator;
import org.opensaml.xml.XMLObject;

/**
 * Concrete Implementation of the {@link org.opensaml.saml1.core.AttributeDesignator} interface.
 */
public class AttributeDesignatorImpl extends AbstractSAMLObject implements AttributeDesignator {

    /** Contains the AttributeName */
    private String attributeName;

    /** Contains the AttributeNamespace */
    private String attributeNamespace;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AttributeDesignatorImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public String getAttributeName() {
        return attributeName;
    }

    /** {@inheritDoc} */
    public void setAttributeName(String attributeName) {
        this.attributeName = prepareForAssignment(this.attributeName, attributeName);
    }

    /** {@inheritDoc} */
    public String getAttributeNamespace() {
        return attributeNamespace;
    }

```

```

    }

    /** {@inheritDoc} */
    public void setAttributeNamespace(String attributeNamespace) {
        this.attributeNamespace = prepareForAssignment(this.attributeNamespace, attributeNamespace);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Action;
import org.opensaml.xml.XMLObject;

/**
 * Concrete implementation of {@link org.opensaml.saml1.core.Action}
 */
public class ActionImpl extends AbstractSAMLObject implements Action {

    /** Place to store the namespace */
    private String namespace;

    /** Where to store the contents */
    private String contents;

    /**

```

```

* Constructor
*
* @param namespaceURI the namespace the element is in
* @param elementLocalName the local name of the XML element this Object represents
* @param namespacePrefix the prefix for the given namespace
*/
protected ActionImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public String getNamespace() {
    return namespace;
}

/** {@inheritDoc} */
public void setNamespace(String namespace) {
    this.namespace = prepareForAssignment(this.namespace, namespace);
}

/** {@inheritDoc} */
public String getContents() {
    return contents;
}

/** {@inheritDoc} */
public void setContents(String contents) {
    this.contents = prepareForAssignment(this.contents, contents);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    // No elements
    return null;
}
}
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*/
```

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.List;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
```

```
import org.opensaml.saml1.core.NameIdentifier;
```

```
import org.opensaml.xml.XMLObject;
```

```
/**
```

```
 * Complete implementation of {@link org.opensaml.saml1.core.impl.NameIdentifierImpl}
```

```
*/
```

```
public class NameIdentifierImpl extends AbstractSAMLObject implements NameIdentifier {
```

```
    /** Contents of the NameQualifierAttribute */
```

```
    String nameQualifier;
```

```
    /** Contents of the Format */
```

```
    String format;
```

```
    /** Contents of the element body */
```

```
    String nameIdentifier;
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected NameIdentifierImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
```

```
        super(namespaceURI, elementLocalName, namespacePrefix);
```

```
    }
```

```
    /** {@inheritDoc} */
```

```
    public String getNameQualifier() {
```

```
        return nameQualifier;
```

```
    }
```

```
    /** {@inheritDoc} */
```

```
    public String getFormat() {
```

```
        return this.format;
```

```
    }
```

```
    /** {@inheritDoc} */
```



```

public String getNameIdentifier() {
    return nameIdentifier;
}

/** {@inheritDoc} */
public void setNameQualifier(String nameQualifier) {
    this.nameQualifier = prepareForAssignment(this.nameQualifier, nameQualifier);
}

public void setFormat(String format) {
    this.format = prepareForAssignment(this.format, format);
}

public void setNameIdentifier(String nameIdentifier) {
    this.nameIdentifier = prepareForAssignment(this.nameIdentifier, nameIdentifier);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return null;
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.Collections;
import java.util.List;

import org.opensaml.saml1.core.Attribute;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**

```

```

* A Concrete implementation of the { @link org.opensaml.saml1.core.Attribute } Interface
*/
public class AttributeImpl extends AttributeDesignatorImpl implements Attribute {

    /** Contains the AttributeValues */
    private final XMLObjectChildrenList<XMLObject> attributeValues;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AttributeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        attributeValues = new XMLObjectChildrenList<XMLObject>(this);
    }

    /** { @inheritDoc } */
    public List<XMLObject> getAttributeValues() {
        return attributeValues;
    }

    /** { @inheritDoc } */
    public List<XMLObject> getOrderedChildren() {
        return Collections.unmodifiableList(attributeValues);
    }
}
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*/

package org.opensaml.saml1.core.impl;

import java.util.List;

```

```

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Audience;
import org.opensaml.xml.XMLObject;

/**
 * Concrete class implementation of { @link org.opensaml.saml1.core.Audience }
 */
public class AudienceImpl extends AbstractSAMLObject implements Audience {

    /** String to hold the URI */
    private String uri;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AudienceImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** { @inheritDoc } */
    public String getUri() {
        return uri;
    }

    /** { @inheritDoc } */
    public void setUri(String uri) {

        this.uri = prepareForAssignment(this.uri, uri);
    }

    /** { @inheritDoc } */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}
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*/

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.joda.time.DateTime;
import org.opensaml.common.SAMLVersion;
import org.opensaml.common.impl.AbstractSignableSAMLObject;
import org.opensaml.saml1.core.RequestAbstractType;
import org.opensaml.saml1.core.RespondWith;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Implementation of { @link org.opensaml.saml1.core.RequestAbstractType}.
 */
public abstract class RequestAbstractTypeImpl extends AbstractSignableSAMLObject implements
RequestAbstractType {

    /** Contains the ID */
    private String id;

    /** Containt the IssueInstant */
    private DateTime issueInstant;

    /** Version of this SAML message */
    private SAMLVersion version;

    /** Contains the respondWiths */
    public final XMLObjectChildrenList<RespondWith> respondWiths;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected RequestAbstractTypeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {

```

```

    super(namespaceURI, elementLocalName, namespacePrefix);
    version = SAMLVersion.VERSION_11;
    respondWiths = new XMLObjectChildrenList<RespondWith>(this);
}

/** {@inheritDoc} */
public String getID() {
    return id;
}

/** {@inheritDoc} */
public void setID(String id) {
    String oldID = this.id;
    this.id = prepareForAssignment(this.id, id);
    registerOwnID(oldID, this.id);
}

/** {@inheritDoc} */
public int getMajorVersion() {
    return version.getMajorVersion();
}

/** {@inheritDoc} */
public int getMinorVersion() {
    return version.getMinorVersion();
}

/** {@inheritDoc} */
public void setVersion(SAMLVersion newVersion) {
    version = prepareForAssignment(version, newVersion);
}

/** {@inheritDoc} */
public DateTime getIssueInstant() {
    return issueInstant;
}

/** {@inheritDoc} */
public void setIssueInstant(DateTime instant) {
    this.issueInstant = prepareForAssignment(this.issueInstant, instant);
}

/** {@inheritDoc} */
public List<RespondWith> getRespondWiths() {
    return respondWiths;
}

/** {@inheritDoc} */

```

```

public String getSignatureReferenceID(){
    return id;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    List<XMLObject> children = new ArrayList<XMLObject>();

    children.addAll(respondWiths);

    if(getSignature() != null){
        children.add(getSignature());
    }

    return Collections.unmodifiableList(children);
}
}

```

1.501 opensaml2 2.4.1.wso2v1

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```

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 */

```

```

package org.opensaml.common.binding.security;

import org.opensaml.common.binding.SAMLMessageContext;
import org.opensaml.security.MetadataCriteria;
import org.opensaml.ws.message.MessageContext;
import org.opensaml.ws.security.SecurityPolicyException;
import org.opensaml.ws.security.provider.BaseTrustEngineRule;
import org.opensaml.xml.security.CriteriaSet;
import org.opensaml.xml.security.credential.UsageType;
import org.opensaml.xml.security.criteria.EntityIDCriteria;

```

```

import org.opensaml.xml.security.criteria.UsageCriteria;
import org.opensaml.xml.security.trust.TrustEngine;
import org.opensaml.xml.signature.Signature;
import org.opensaml.xml.util.DatatypeHelper;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Base class for SAML security policy rules which evaluate a signature with a signature trust engine.
 */
public abstract class BaseSAMLXMLSignatureSecurityPolicyRule extends BaseTrustEngineRule<Signature> {

    /** Logger. */
    private final Logger log = LoggerFactory.getLogger(BaseSAMLXMLSignatureSecurityPolicyRule.class);

    /**
     * Constructor.
     *
     * @param engine Trust engine used to verify the signature
     */
    public BaseSAMLXMLSignatureSecurityPolicyRule(TrustEngine<Signature> engine) {
        super(engine);
    }

    /** {@inheritDoc} */
    protected CriteriaSet buildCriteriaSet(String entityID, MessageContext messageContext)
        throws SecurityPolicyException {
        if (!(messageContext instanceof SAMLMessageContext)) {
            log.error("Supplied message context was not an instance of SAMLMessageContext, can not build criteria set
from SAML metadata parameters");
            throw new SecurityPolicyException("Supplied message context was not an instance of
SAMLMessageContext");
        }

        SAMLMessageContext samlContext = (SAMLMessageContext) messageContext;

        CriteriaSet criteriaSet = new CriteriaSet();
        if (!DatatypeHelper.isEmpty(entityID)) {
            criteriaSet.add(new EntityIDCriteria(entityID) );
        }

        MetadataCriteria mdCriteria =
            new MetadataCriteria(samlContext.getPeerEntityRole(), samlContext.getInboundSAMLProtocol());
        criteriaSet.add(mdCriteria);

        criteriaSet.add( new UsageCriteria(UsageType.SIGNING) );

        return criteriaSet;
    }
}

```

```

    }

}
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 */

package org.opensaml.common.binding.security;

import org.opensaml.common.SAMLObject;
import org.opensaml.common.SignableSAMLObject;
import org.opensaml.common.binding.SAMLMessageContext;
import org.opensaml.security.SAMLSignatureProfileValidator;
import org.opensaml.ws.message.MessageContext;
import org.opensaml.ws.security.SecurityPolicyException;
import org.opensaml.xml.security.trust.TrustEngine;
import org.opensaml.xml.signature.Signature;
import org.opensaml.xml.validation.ValidationException;
import org.opensaml.xml.validation.Validator;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * SAML security policy rule which validates the signature (if present) on the {@link SAMLObject} which
 * represents the
 * SAML protocol message being processed.
 *
 * <p>
 * If the message is not an instance of {@link SignableSAMLObject}, then no processing is performed. If signature
 * validation is successful, and the SAML message context issuer was not previously authenticated, then the context's
 * issuer authentication state will be set to <code>>true</code>.
 * </p>
 *
 * <p>
 * If an optional {@link Validator} for {@link Signature} objects is supplied, this validator will be used to validate
 * the XML Signature element prior to the actual cryptographic validation of the signature. This might for example

```



```

be
* used to enforce certain signature profile requirements or to detect signatures upon which it would be unsafe to
* attempt cryptographic processing. When using the single argument constructor form, the validator will default to
* {@link SAMLSignatureProfileValidator}.
* </p>
*/

public class SAMLProtocolMessageXMLSignatureSecurityPolicyRule extends
BaseSAMLXMLSignatureSecurityPolicyRule {

    /** Logger. */
    private final Logger log =
LoggerFactory.getLogger(SAMLProtocolMessageXMLSignatureSecurityPolicyRule.class);

    /** Validator for XML Signature instances. */
    private Validator<Signature> sigValidator;

    /**
     * Constructor.
     *
     * Signature pre-validator defaults to {@link SAMLSignatureProfileValidator}.
     *
     * @param engine Trust engine used to verify the signature
     */
    public SAMLProtocolMessageXMLSignatureSecurityPolicyRule(TrustEngine<Signature> engine) {
        super(engine);
        sigValidator = new SAMLSignatureProfileValidator();
    }

    /**
     * Constructor.
     *
     * @param engine Trust engine used to verify the signature
     * @param signatureValidator optional pre-validator used to validate Signature elements prior to the actual
     * cryptographic validation operation
     */
    public SAMLProtocolMessageXMLSignatureSecurityPolicyRule(TrustEngine<Signature> engine,
        Validator<Signature> signatureValidator) {
        super(engine);
        sigValidator = signatureValidator;
    }

    /** {@inheritDoc} */
    public void evaluate(MessageContext messageContext) throws SecurityPolicyException {
        if (!(messageContext instanceof SAMLMessageContext)) {
            log.debug("Invalid message context type, this policy rule only supports SAMLMessageContext");
            return;
        }
    }
}

```

```

SAMLMessageContext samlMsgCtx = (SAMLMessageContext) messageContext;

SAMLObject samlMsg = samlMsgCtx.getInboundSAMLMessage();
if (!(samlMsg instanceof SignableSAMLObject)) {
    log.debug("Extracted SAML message was not a SignableSAMLObject, can not process signature");
    return;
}
SignableSAMLObject signableObject = (SignableSAMLObject) samlMsg;
if (!signableObject.isSigned()) {
    log.info("SAML protocol message was not signed, skipping XML signature processing");
    return;
}
Signature signature = signableObject.getSignature();

performPreValidation(signature);

doEvaluate(signature, signableObject, samlMsgCtx);
}

/**
 * Perform cryptographic validation and trust evaluation on the Signature token using the configured Signature
trust
 * engine.
 *
 * @param signature the signature which is being evaluated
 * @param signableObject the signable object which contained the signature
 * @param samlMsgCtx the SAML message context being processed
 * @throws SecurityPolicyException thrown if the signature fails validation
 */
protected void doEvaluate(Signature signature, SignableSAMLObject signableObject, SAMLMessageContext
samlMsgCtx)
    throws SecurityPolicyException {

    String contextIssuer = samlMsgCtx.getInboundMessageIssuer();
    if (contextIssuer != null) {
        String msgType = signableObject.getElementQName().toString();
        log.debug("Attempting to verify signature on signed SAML protocol message using context issuer message
type: {}",
                msgType);

        if (evaluate(signature, contextIssuer, samlMsgCtx)) {
            log.info("Validation of protocol message signature succeeded, message type: {}", msgType);
            if (!samlMsgCtx.isInboundSAMLMessageAuthenticated()) {
                log.debug("Authentication via protocol message signature succeeded for context issuer entity ID {}",
                        contextIssuer);
                samlMsgCtx.setInboundSAMLMessageAuthenticated(true);
            }
        } else {

```

```

        log.debug("Validation of protocol message signature failed for context issuer '" + contextIssuer
            + "', message type: " + msgType);
        throw new SecurityPolicyException("Validation of protocol message signature failed");
    }
} else {
    log.debug("Context issuer unavailable, can not attempt SAML protocol message signature validation");
    throw new SecurityPolicyException("Context issuer unavailable, can not validate signature");
}
}
}

/**
 * Get the validator used to perform pre-validation on Signature tokens.
 *
 * @return the configured Signature validator, or null
 */
protected Validator<Signature> getSignaturePrevalidator() {
    return sigValidator;
}

/**
 * Perform pre-validation on the Signature token.
 *
 * @param signature the signature to evaluate
 * @throws SecurityPolicyException thrown if the signature element fails pre-validation
 */
protected void performPreValidation(Signature signature) throws SecurityPolicyException {
    if (getSignaturePrevalidator() != null) {
        try {
            getSignaturePrevalidator().validate(signature);
        } catch (ValidationException e) {
            log.debug("Protocol message signature failed signature pre-validation", e);
            throw new SecurityPolicyException("Protocol message signature failed signature pre-validation", e);
        }
    }
}

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*/

```
package org.opensaml.common.binding.security;
```

```
import java.util.List;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import org.opensaml.common.binding.SAMLMessageContext;
```

```
import org.opensaml.security.MetadataCriteria;
```

```
import org.opensaml.ws.message.MessageContext;
```

```
import org.opensaml.ws.security.SecurityPolicyException;
```

```
import org.opensaml.ws.security.SecurityPolicyRule;
```

```
import org.opensaml.ws.transport.http.HttpServletRequestAdapter;
```

```
import org.opensaml.xml.security.CriteriaSet;
```

```
import org.opensaml.xml.security.SecurityException;
```

```
import org.opensaml.xml.security.credential.Credential;
```

```
import org.opensaml.xml.security.credential.UsageType;
```

```
import org.opensaml.xml.security.criteria.EntityIDCriteria;
```

```
import org.opensaml.xml.security.criteria.UsageCriteria;
```

```
import org.opensaml.xml.signature.SignatureTrustEngine;
```

```
import org.opensaml.xml.util.Base64;
```

```
import org.opensaml.xml.util.DatatypeHelper;
```

```
import org.slf4j.Logger;
```

```
import org.slf4j.LoggerFactory;
```

```
/**
```

```
 * Base class for security rules which verify simple "blob" signatures computed over some components of a request.
```

```
*/
```

```
public abstract class BaseSAMLSimpleSignatureSecurityPolicyRule implements SecurityPolicyRule {
```

```
    /** Logger. */
```

```
    private final Logger log = LoggerFactory.getLogger(BaseSAMLSimpleSignatureSecurityPolicyRule.class);
```

```
    /** Signature trust engine used to validate raw signatures. */
```

```
    private SignatureTrustEngine trustEngine;
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param engine the signature trust engine to use for signature validation
```

```
     */
```

```
    protected BaseSAMLSimpleSignatureSecurityPolicyRule(SignatureTrustEngine engine) {
```

```
        trustEngine = engine;
```

```
    }
```

```

/** {@inheritDoc} */
public void evaluate(MessageContext messageContext) throws SecurityPolicyException {
    log.debug("Evaluating simple signature rule of type: {}", getClass().getName());
    if (!(messageContext instanceof SAMLMessageContext)) {
        log.debug("Invalid message context type, this policy rule only supports SAMLMessageContext");
        return;
    }

    if (!(messageContext.getInboundMessageTransport() instanceof HttpServletRequestAdapter)) {
        log.debug("Invalid inbound message transport type, this rule only supports HttpServletRequestAdapter");
        return;
    }

    SAMLMessageContext samlMsgCtx = (SAMLMessageContext) messageContext;
    HttpServletRequestAdapter requestAdapter = (HttpServletRequestAdapter) messageContext
        .getInboundMessageTransport();
    HttpServletRequest request = requestAdapter.getWrappedRequest();

    if (!ruleHandles(request, samlMsgCtx)) {
        log.debug("Rule can not handle this request, skipping processing");
        return;
    }

    byte[] signature = getSignature(request);
    if (signature == null || signature.length == 0) {
        log.debug("HTTP request was not signed via simple signature mechanism, skipping");
        return;
    }

    String sigAlg = getSignatureAlgorithm(request);
    if (DatatypeHelper.isEmpty(sigAlg)) {
        log.warn("Signature algorithm could not be extracted from request, can not validate simple signature");
        return;
    }

    byte[] signedContent = getSignedContent(request);
    if (signedContent == null || signedContent.length == 0) {
        log.warn("Signed content could not be extracted from HTTP request, can not validate");
        return;
    }

    doEvaluate(signature, signedContent, sigAlg, request, samlMsgCtx);
}

/**
 * Evaluate the simple signature based on information in the request and/or message context.
 *
 * @param signature the signature value

```

```

* @param signedContent the content that was signed
* @param algorithmURI the signature algorithm URI which was used to sign the content
* @param request the HTTP servlet request being processed
* @param samlMsgCtx the SAML message context being processed
*
* @throws SecurityPolicyException thrown if there are errors during the signature validation process
*
*/
private void doEvaluate(byte[] signature, byte[] signedContent, String algorithmURI, HttpServletRequest request,
    SAMLMessageContext samlMsgCtx) throws SecurityPolicyException {

    List<Credential> candidateCredentials = getRequestCredentials(request, samlMsgCtx);

    String contextIssuer = samlMsgCtx.getInboundMessageIssuer();

    if (contextIssuer != null) {
        log.debug("Attempting to validate SAML protocol message simple signature using context issuer: {}",
            contextIssuer);
        CriteriaSet criteriaSet = buildCriteriaSet(contextIssuer, samlMsgCtx);
        if (validateSignature(signature, signedContent, algorithmURI, criteriaSet, candidateCredentials)) {
            log.info("Validation of request simple signature succeeded");
            if (!samlMsgCtx.isInboundSAMLMessageAuthenticated()) {
                log.info("Authentication via request simple signature succeeded for context issuer entity ID {}",
                    contextIssuer);
                samlMsgCtx.setInboundSAMLMessageAuthenticated(true);
            }
            return;
        } else {
            log.warn("Validation of request simple signature failed for context issuer: {}", contextIssuer);
            throw new SecurityPolicyException("Validation of request simple signature failed for context issuer");
        }
    }

    String derivedIssuer = deriveSignerEntityID(samlMsgCtx);
    if (derivedIssuer != null) {
        log.debug("Attempting to validate SAML protocol message simple signature using derived issuer: {}",
            derivedIssuer);
        CriteriaSet criteriaSet = buildCriteriaSet(derivedIssuer, samlMsgCtx);
        if (validateSignature(signature, signedContent, algorithmURI, criteriaSet, candidateCredentials)) {
            log.info("Validation of request simple signature succeeded");
            if (!samlMsgCtx.isInboundSAMLMessageAuthenticated()) {
                log.info("Authentication via request simple signature succeeded for derived issuer {}",
                    derivedIssuer);
                samlMsgCtx.setInboundMessageIssuer(derivedIssuer);
                samlMsgCtx.setInboundSAMLMessageAuthenticated(true);
            }
            return;
        } else {

```

```

        log.warn("Validation of request simple signature failed for derived issuer: {}", derivedIssuer);
        throw new SecurityPolicyException("Validation of request simple signature failed for derived issuer");
    }
}

log.warn("Neither context nor derived issuer available, can not attempt SAML simple signature validation");
throw new SecurityPolicyException("No message issuer available, can not attempt simple signature
validation");
}

/**
 * Validate the simple signature.
 *
 * @param signature the signature value
 * @param signedContent the content that was signed
 * @param algorithmURI the signature algorithm URI which was used to sign the content
 * @param criteriaSet criteria used to describe and/or resolve the information which serves as the basis for trust
 *     evaluation
 * @param candidateCredentials the request-derived candidate credential(s) containing the validation key for the
 *     signature (optional)
 * @return true if signature can be verified successfully, false otherwise
 *
 * @throws SecurityPolicyException thrown if there are errors during the signature validation process
 */
protected boolean validateSignature(byte[] signature, byte[] signedContent, String algorithmURI,
    CriteriaSet criteriaSet, List<Credential> candidateCredentials) throws SecurityPolicyException {

    SignatureTrustEngine engine = getTrustEngine();

    // Some bindings allow candidate signing credentials to be supplied (e.g. via ds:KeyInfo), some do not.
    // So have 2 slightly different cases.
    try {
        if (candidateCredentials == null || candidateCredentials.isEmpty()) {
            if (engine.validate(signature, signedContent, algorithmURI, criteriaSet, null)) {
                log.debug("Simple signature validation (with no request-derived credentials) was successful");
                return true;
            } else {
                log.warn("Simple signature validation (with no request-derived credentials) failed");
                return false;
            }
        } else {
            for (Credential cred : candidateCredentials) {
                if (engine.validate(signature, signedContent, algorithmURI, criteriaSet, cred)) {
                    log.debug("Simple signature validation succeeded with a request-derived credential");
                    return true;
                }
            }
        }
    }
}

```

```

        log.warn("Signature validation using request-derived credentials failed");
        return false;
    }
} catch (SecurityException e) {
    log.warn("There was an error evaluating the request's simple signature using the trust engine", e);
    throw new SecurityPolicyException("Error during trust engine evaluation of the simple signature", e);
}
}

/**
 * Extract any candidate validation credentials from the request and/or message context.
 *
 * Some bindings allow validation keys for the simple signature to be supplied, and others do not.
 *
 * @param request the HTTP servlet request being processed
 * @param samlContext the SAML message context being processed
 * @return a list of candidate validation credentials in the request, or null if none were present
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected List<Credential> getRequestCredentials(HttpServletRequest request, SAMLMessageContext
samlContext)
    throws SecurityPolicyException {
    // This will be specific to the binding and message types, so no default.
    return null;
}

/**
 * Gets the engine used to validate the signature.
 *
 * @return engine engine used to validate the signature
 */
protected SignatureTrustEngine getTrustEngine() {
    return trustEngine;
}

/**
 * Extract the signature value from the request, in the form suitable for input into
 * {@link SignatureTrustEngine#validate(byte[], byte[], String, CriteriaSet, Credential)}.
 *
 * Defaults to the Base64-decoded value of the HTTP request parameter named Signature.
 *
 * @param request the HTTP servlet request
 * @return the signature value
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected byte[] getSignature(HttpServletRequest request) throws SecurityPolicyException {
    String signature = request.getParameter("Signature");
    if (DatatypeHelper.isEmpty(signature)) {

```



```

        return null;
    }
    return Base64.decode(signature);
}

/**
 * Extract the signature algorithm URI value from the request.
 *
 * Defaults to the HTTP request parameter named <code>SigAlg</code>.
 *
 * @param request the HTTP servlet request
 * @return the signature algorithm URI value
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected String getSignatureAlgorithm(HttpServletRequest request) throws SecurityPolicyException {
    return request.getParameter("SigAlg");
}

/**
 * Derive the signer's entity ID from the message context.
 *
 * This is implementation-specific and there is no default. This is primarily an extension point for subclasses.
 *
 * @param samlContext the SAML message context being processed
 * @return the signer's derived entity ID
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected String deriveSignerEntityID(SAMLMessageContext samlContext) throws SecurityPolicyException {
    // No default
    return null;
}

/**
 * Build a criteria set suitable for input to the trust engine.
 *
 * @param entityID the candidate issuer entity ID which is being evaluated
 * @param samlContext the message context which is being evaluated
 * @return a newly constructly set of criteria suitable for the configured trust engine
 * @throws SecurityPolicyException thrown if criteria set can not be constructed
 */
protected CriteriaSet buildCriteriaSet(String entityID, SAMLMessageContext samlContext)
    throws SecurityPolicyException {

    CriteriaSet criteriaSet = new CriteriaSet();
    if (!DatatypeHelper.isEmpty(entityID)) {
        criteriaSet.add(new EntityIDCriteria(entityID));
    }
}

```

```

MetadataCriteria mdCriteria = new MetadataCriteria(samlContext.getPeerEntityRole(), samlContext
    .getInboundSAMLProtocol());
criteriaSet.add(mdCriteria);

criteriaSet.add(new UsageCriteria(UsageType.SIGNING));

return criteriaSet;
}

/**
 * Get the content over which to validate the signature, in the form suitable for input into
 * {@link SignatureTrustEngine#validate(byte[], byte[], String, CriteriaSet, Credential)}.
 *
 * @param request the HTTP servlet request being processed
 * @return the signed content extracted from the request, in the format suitable for input to the trust engine.
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected abstract byte[] getSignedContent(HttpServletRequest request) throws SecurityPolicyException;

/**
 * Determine whether the rule should handle the request, based on the unwrapped HTTP servlet request and/or
message
 * context.
 *
 * @param request the HTTP servlet request being processed
 * @param samlMsgCtx the SAML message context being processed
 * @return true if the rule should attempt to process the request, otherwise false
 * @throws SecurityPolicyException thrown if there is an error during request processing
 */
protected abstract boolean ruleHandles(HttpServletRequest request, SAMLMessageContext samlMsgCtx)
    throws SecurityPolicyException;
}

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 */

```

```

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.StatusMessage;
import org.opensaml.xml.XMLObject;

/**
 * Concrete implementation of org.opensaml.saml1.core StatusMessage object
 */
public class StatusMessageImpl extends AbstractSAMLObject implements StatusMessage {

    /**
     * Contents of the element
     */
    private String message;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected StatusMessageImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public String getMessage() {
        return message;
    }

    /** {@inheritDoc} */
    public void setMessage(String message) {
        this.message = prepareForAssignment(this.message, message);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}
/*
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 */

```

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 */

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.List;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
```

```
import org.opensaml.saml1.core.AssertionIDReference;
```

```
import org.opensaml.xml.XMLObject;
```

```
/**
```

```
 * Concrete Implementation of { @link org.opensaml.saml1.core.AssertionIDReference } Object
```

```
*/
```

```
public class AssertionIDReferenceImpl extends AbstractSAMLObject implements AssertionIDReference {
```

```
    /** String to contain the NCName */
```

```
    private String NCName;
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected AssertionIDReferenceImpl(String namespaceURI, String elementLocalName, String namespacePrefix)
```

```
    {
```

```
        super(namespaceURI, elementLocalName, namespacePrefix);
```

```
    }
```

```
    /** { @inheritDoc } */
```

```
    public String getReference() {
```

```
        return NCName;
```

```
    }
```

```
    /** { @inheritDoc } */
```

```
    public void setReference(String NCName) {
```

```

        this.NCName = prepareForAssignment(this.NCName, NCName);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Subject;
import org.opensaml.saml1.core.SubjectStatement;
import org.opensaml.xml.XMLObject;

/**
 * Abstract type to implement SubjectStatementType
 */
public abstract class SubjectStatementImpl extends AbstractSAMLObject implements SubjectStatement {

    /** Contains the Subject subelement */
    private Subject subject;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     */
}

```

```

* @param namespacePrefix the prefix for the given namespace
*/
protected SubjectStatementImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public Subject getSubject() {
    return subject;
}

/** {@inheritDoc} */
public void setSubject(Subject subject) throws IllegalArgumentException {
    this.subject = prepareForAssignment(this.subject, subject);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    if (subject == null) {
        return null;
    }

    List<XMLObject> children = new ArrayList<XMLObject>();
    children.add(subject);
    return Collections.unmodifiableList(children);
}
}
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*/

package org.opensaml.saml1.core.impl;

import java.util.List;

import javax.xml.namespace.QName;

```

```

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.RespondWith;
import org.opensaml.xml.XMLObject;

/**
 * Implementation of {@link RespondWith}.
 */
public class RespondWithImpl extends AbstractSAMLObject implements RespondWith {

    /** Value of this element. */
    private QName value;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected RespondWithImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public QName getValue() {
        return value;
    }

    /** {@inheritDoc} */
    public void setValue(QName newValue) {
        value = prepareElementContentForAssignment(value, newValue);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}
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*/
```

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.List;
```

```
import javax.xml.namespace.QName;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
```

```
import org.opensaml.saml1.core.AuthorityBinding;
```

```
import org.opensaml.xml.XMLObject;
```

```
/**
```

```
 * A concrete implementation of the { @link org.opensaml.saml1.core.SubjectLocality } interface
```

```
*/
```

```
public class AuthorityBindingImpl extends AbstractSAMLObject implements AuthorityBinding {
```

```
    /** The AuthorityKind */
```

```
    private QName authorityKind;
```

```
    /** The Location */
```

```
    private String location;
```

```
    /** The Binding */
```

```
    private String binding;
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected AuthorityBindingImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
```

```
    /** { @inheritDoc } */
```

```
    public QName getAuthorityKind() {
```

```
        return authorityKind;
```

```
    }
```

```
    /** { @inheritDoc } */
```



```

    public void setAuthorityKind(QName authorityKind) {
        this.authorityKind =
prepareAttributeValueForAssignment(AuthorityBinding.AUTHORITYKIND_ATTRIB_NAME,
        this.authorityKind, authorityKind);
    }

/** {@inheritDoc} */
public String getLocation() {
    return location;
}

/** {@inheritDoc} */
public void setLocation(String location) {
    this.location = prepareForAssignment(this.location, location);
}

/** {@inheritDoc} */
public String getBinding() {
    return binding;
}

/** {@inheritDoc} */
public void setBinding(String binding) {
    this.binding = prepareForAssignment(this.binding, binding);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    // No children
    return null;
}
}
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*/

```

```

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.common.xml.SAMLConstants;
import org.opensaml.saml1.core.Assertion;
import org.opensaml.saml1.core.AssertionIDReference;
import org.opensaml.saml1.core.Evidence;
import org.opensaml.saml1.core.Evidentiary;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;

/**
 * Concrete implementation of the {@link org.opensaml.saml1.core.Evidence} interface.
 */
public class EvidenceImpl extends AbstractSAMLObject implements Evidence {

    /** The Evidentiary child elements. */
    private final IndexedXMLObjectChildrenList<Evidentiary> evidence;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected EvidenceImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        evidence = new IndexedXMLObjectChildrenList<Evidentiary>(this);
    }

    /** {@inheritDoc} */
    public List<AssertionIDReference> getAssertionIDReferences() {
        QName qname = new QName(SAMLConstants.SAML1_NS,
            AssertionIDReference.DEFAULT_ELEMENT_LOCAL_NAME);
        return (List<AssertionIDReference>) evidence.subList(qname);
    }

    /** {@inheritDoc} */
    public List<Assertion> getAssertions() {
        QName qname = new QName(SAMLConstants.SAML1_NS,
            Assertion.DEFAULT_ELEMENT_LOCAL_NAME);

```

```

        return (List<Assertion>) evidence.subList(qname);
    }

    /** {@inheritDoc} */
    public List<Evidentiary> getEvidence() {
        return evidence;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        if (evidence.size() == 0) {
            return null;
        }

        ArrayList<XMLObject> list = new ArrayList<XMLObject>();
        list.addAll(evidence);

        return Collections.unmodifiableList(list);
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.joda.time.DateTime;
import org.opensaml.saml1.core.AuthenticationStatement;
import org.opensaml.saml1.core.AuthorityBinding;
import org.opensaml.saml1.core.SubjectLocality;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

```

```

/**
 * A Concrete implementation of the { @link org.opensaml.saml1.core.AuthenticationStatement } Interface
 */
public class AuthenticationStatementImpl extends SubjectStatementImpl implements AuthenticationStatement {

    /** Contains the AuthenticationMethod attribute contents */
    private String authenticationMethod;

    /** Contains the AuthenticationMethod attribute contents */
    private DateTime authenticationInstant;

    /** Contains the SubjectLocality subelement */
    private SubjectLocality subjectLocality;

    /** Contains the AuthorityBinding subelements */
    private final XMLObjectChildrenList<AuthorityBinding> authorityBindings;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AuthenticationStatementImpl(String namespaceURI, String elementLocalName, String
namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        authorityBindings = new XMLObjectChildrenList<AuthorityBinding>(this);
    }

    /** {@inheritDoc} */
    public String getAuthenticationMethod() {
        return authenticationMethod;
    }

    /** {@inheritDoc} */
    public void setAuthenticationMethod(String authenticationMethod) {
        this.authenticationMethod = prepareForAssignment(this.authenticationMethod, authenticationMethod);
    }

    /** {@inheritDoc} */
    public DateTime getAuthenticationInstant() {
        return authenticationInstant;
    }

    /** {@inheritDoc} */
    public void setAuthenticationInstant(DateTime authenticationInstant) {

```

```

        this.authenticationInstant = prepareForAssignment(this.authenticationInstant, authenticationInstant);
    }

    //
    // Elements
    //

    /** {@inheritDoc} */
    public SubjectLocality getSubjectLocality() {
        return subjectLocality;
    }

    /** {@inheritDoc} */
    public void setSubjectLocality(SubjectLocality subjectLocality) throws IllegalArgumentException {
        this.subjectLocality = prepareForAssignment(this.subjectLocality, subjectLocality);
    }

    /** {@inheritDoc} */
    public List<AuthorityBinding> getAuthorityBindings() {
        return authorityBindings;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        List<XMLObject> list = new ArrayList<XMLObject>(authorityBindings.size() + 2);

        if (super.getOrderedChildren() != null) {
            list.addAll(super.getOrderedChildren());
        }

        if (subjectLocality != null) {
            list.add(subjectLocality);
        }

        list.addAll(authorityBindings);

        if (list.size() == 0) {
            return null;
        }

        return Collections.unmodifiableList(list);
    }
}
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 */

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Subject;
import org.opensaml.saml1.core.SubjectQuery;
import org.opensaml.xml.XMLObject;
```

```
/**
```

```
* Concrete (but abstract) implementation of { @link org.opensaml.saml1.core.SubjectQuery } abstract type  

*/
```

```
public abstract class SubjectQueryImpl extends AbstractSAMLObject implements SubjectQuery {
```

```
    /** Contains the Subject subelement */
```

```
    private Subject subject;
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected SubjectQueryImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
```

```
    /** { @inheritDoc } */
```

```
    public Subject getSubject() {
        return subject;
    }
```

```
    /** { @inheritDoc } */
```

```
    public void setSubject(Subject subject) {
```

```

        this.subject = prepareForAssignment(this.subject, subject);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        if (subject == null) {
            return null;
        }

        List<XMLObject> children = new ArrayList<XMLObject>();
        children.add(subject);
        return Collections.unmodifiableList(children);
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.saml1.core.Assertion;
import org.opensaml.saml1.core.Response;
import org.opensaml.saml1.core.Status;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Implementation of the {@link org.opensaml.saml1.core.Response} Object
 */
public class ResponseImpl extends ResponseAbstractTypeImpl implements Response {

    /** Status associated with this element */

```

```

private Status status = null;

/** List of all the Assertions */
private final XMLObjectChildrenList<Assertion> assertions;

/**
 * Constructor
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected ResponseImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    assertions = new XMLObjectChildrenList<Assertion>(this);
}

/** {@inheritDoc} */
public List<Assertion> getAssertions() {
    return assertions;
}

/** {@inheritDoc} */
public Status getStatus() {
    return status;
}

/** {@inheritDoc} */
public void setStatus(Status status) throws IllegalArgumentException {
    this.status = prepareForAssignment(this.status, status);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>(1 + assertions.size());

    if (super.getOrderedChildren() != null) {
        children.addAll(super.getOrderedChildren());
    }

    if (status != null) {
        children.add(status);
    }

    children.addAll(assertions);

    if (children.size() == 0) {
        return null;
    }
}

```



```

    }

    return Collections.unmodifiableList(children);
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core ConfirmationMethod;
import org.opensaml.xml.XMLObject;

/**
 * Concrete Implementation of the {@link org.opensaml.saml1.core ConfirmationMethod} interface
 */
public class ConfirmationMethodImpl extends AbstractSAMLObject implements ConfirmationMethod {

    /** Contains the content string */
    private String confirmationMethod;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected ConfirmationMethodImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
}

```

```

/** {@inheritDoc} */
public String getConfirmationMethod() {
    return confirmationMethod;
}

/** {@inheritDoc} */
public void setConfirmationMethod(String confirmationMethod) {
    this.confirmationMethod = prepareForAssignment(this.confirmationMethod, confirmationMethod);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return null;
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Audience;
import org.opensaml.saml1.core.AudienceRestrictionCondition;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Concrete implementation of the org.opensaml.saml1.core.AudienceRestrictionCondition
 */
public class AudienceRestrictionConditionImpl extends AbstractSAMLObject implements
AudienceRestrictionCondition {

```

```

/** Audiences */
private final XMLObjectChildrenList<Audience> audiences;

/**
 * Constructor.
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected AudienceRestrictionConditionImpl(String namespaceURI, String elementLocalName, String
namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    audiences = new XMLObjectChildrenList<Audience>(this);
}

/** {@inheritDoc} */
public List<Audience> getAudiences() {
    return audiences;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {

    if (audiences.size() == 0) {
        return null;
    }
    ArrayList<XMLObject> children = new ArrayList<XMLObject>(audiences);
    return Collections.unmodifiableList(children);
}
}
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 */

```

```

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.common.xml.SAMLConstants;
import org.opensaml.saml1.core.Action;
import org.opensaml.saml1.core.AuthorizationDecisionQuery;
import org.opensaml.saml1.core.Evidence;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Concrete implementation of the { @link org.opensaml.saml1.core.AuthorizationDecisionQuery } interface
 */
public class AuthorizationDecisionQueryImpl extends SubjectQueryImpl implements AuthorizationDecisionQuery
{

    /** Contains the resource attribute */
    private String resource;

    /** Contains all the Action child elements */
    private final XMLObjectChildrenList<Action> actions;

    /** Contains the Evidence child element */
    private Evidence evidence;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AuthorizationDecisionQueryImpl(String namespaceURI, String elementLocalName, String
namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        setElementNamespacePrefix(SAMLConstants.SAML1P_PREFIX);
        actions = new XMLObjectChildrenList<Action>(this);
    }

    /** { @inheritDoc } */
    public String getResource() {
        return resource;
    }

    /** { @inheritDoc } */

```

```

public void setResource(String resource) {
    this.resource = prepareForAssignment(this.resource, resource);
}

/** {@inheritDoc} */
public List<Action> getActions() {
    return actions;
}

/** {@inheritDoc} */
public Evidence getEvidence() {
    return evidence;
}

/** {@inheritDoc} */
public void setEvidence(Evidence evidence) {
    this.evidence = prepareForAssignment(this.evidence, evidence);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    List<XMLObject> list = new ArrayList<XMLObject>(actions.size() + 2);

    if (super.getOrderedChildren() != null) {
        list.addAll(super.getOrderedChildren());
    }

    list.addAll(actions);
    if (evidence != null) {
        list.add(evidence);
    }

    if (list.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(list);
}
}
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*/

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.ArrayList;  
import java.util.Collections;  
import java.util.List;
```

```
import org.opensaml.saml1.core.AttributeDesignator;  
import org.opensaml.saml1.core.AttributeQuery;  
import org.opensaml.xml.XMLObject;  
import org.opensaml.xml.util.XMLObjectChildrenList;
```

```
/**
```

```
* Concrete implementation of the {@link org.opensaml.saml1.core.AttributeQuery} interface  
*/
```

```
public class AttributeQueryImpl extends SubjectQueryImpl implements AttributeQuery {
```

```
    /** Contains the resource attribute */
```

```
    private String resource;
```

```
    /** Contains all the child AttributeDesignators */
```

```
    private final XMLObjectChildrenList<AttributeDesignator> attributeDesignators;
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected AttributeQueryImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {  
        super(namespaceURI, elementLocalName, namespacePrefix);  
        attributeDesignators = new XMLObjectChildrenList<AttributeDesignator>(this);  
    }
```

```
    /** {@inheritDoc} */
```

```
    public String getResource() {  
        return resource;  
    }
```

```
    /** {@inheritDoc} */
```

```
    public void setResource(String resource) {
```

```

        this.resource = prepareForAssignment(this.resource, resource);
    }

    /** {@inheritDoc} */
    public List<AttributeDesignator> getAttributeDesignators() {
        return attributeDesignators;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        List<XMLObject> list = new ArrayList<XMLObject>(attributeDesignators.size() + 1);

        if (super.getOrderedChildren() != null) {
            list.addAll(super.getOrderedChildren());
        }

        list.addAll(attributeDesignators);
        return Collections.unmodifiableList(list);
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.StatusDetail;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;

```

```

/**
 * Concrete implementation of {@link org.opensaml.saml2.core.StatusDetail}
 */
public class StatusDetailImpl extends AbstractSAMLObject implements StatusDetail {

    /** child "any" elements */
    private final IndexedXMLObjectChildrenList<XMLObject> unknownChildren;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected StatusDetailImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        unknownChildren = new IndexedXMLObjectChildrenList<XMLObject>(this);
    }

    /**
     * {@inheritDoc}
     */
    public List<XMLObject> getUnknownXMLObjects() {
        return unknownChildren;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getUnknownXMLObjects(QName typeOrName) {
        return (List<XMLObject>) unknownChildren.subList(typeOrName);
    }

    /**
     * {@inheritDoc}
     */
    public List<XMLObject> getOrderedChildren() {
        return Collections.unmodifiableList(unknownChildren);
    }
}

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```

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.ArrayList;  
import java.util.Collections;  
import java.util.List;
```

```
import org.joda.time.DateTime;  
import org.opensaml.common.SAMLVersion;  
import org.opensaml.common.impl.AbstractSignableSAMLObject;  
import org.opensaml.saml1.core.ResponseAbstractType;  
import org.opensaml.xml.XMLObject;
```

```
/**
```

```
 * Abstract implementation of { @link org.opensaml.saml1.core.ResponseAbstractType } Object  
 */
```

```
public abstract class ResponseAbstractTypeImpl extends AbstractSignableSAMLObject implements  
ResponseAbstractType {
```

```
    /** Contains the ID */
```

```
    private String id;
```

```
    private SAMLVersion version;
```

```
    /** Contents of the InResponseTo attribute */
```

```
    private String inResponseTo = null;
```

```
    /** Contents of the Date attribute */
```

```
    private DateTime issueInstant = null;
```

```
    /** Contents of the recipient attribute */
```

```
    private String recipient = null;
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected ResponseAbstractTypeImpl(String namespaceURI, String elementLocalName, String namespacePrefix)
```

```
    {
```

```
        super(namespaceURI, elementLocalName, namespacePrefix);
```

```

    version = SAMLVersion.VERSION_11;
}

/** {@inheritDoc} */
public String getID() {
    return id;
}

/** {@inheritDoc} */
public void setID(String id) {
    String oldID = this.id;
    this.id = prepareForAssignment(this.id, id);
    registerOwnID(oldID, this.id);
}

/** {@inheritDoc} */
public String getInResponseTo() {
    return inResponseTo;
}

/** {@inheritDoc} */
public void setInResponseTo(String inResponseTo) {
    this.inResponseTo = prepareForAssignment(this.inResponseTo, inResponseTo);
}

/** {@inheritDoc} */
public int getMinorVersion() {
    return version.getMinorVersion();
}

/** {@inheritDoc} */
public int getMajorVersion() {
    return version.getMajorVersion();
}

/** {@inheritDoc} */
public void setVersion(SAMLVersion newVersion) {
    version = prepareForAssignment(version, newVersion);
}

/** {@inheritDoc} */
public DateTime getIssueInstant() {

    return issueInstant;
}

/** {@inheritDoc} */
public void setIssueInstant(DateTime date) {

```

```

        this.issueInstant = prepareForAssignment(this.issueInstant, date);
    }

    /** {@inheritDoc} */
    public String getRecipient() {
        return recipient;
    }

    /** {@inheritDoc} */
    public void setRecipient(String recipient) {
        this.recipient = prepareForAssignment(this.recipient, recipient);
    }

    /** {@inheritDoc} */
    public String getSignatureReferenceID(){
        return id;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        List<XMLObject> children = new ArrayList<XMLObject>();

        if(getSignature() != null){
            children.add(getSignature());
        }

        return Collections.unmodifiableList(children);
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

```

```

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.AssertionArtifact;
import org.opensaml.xml.XMLObject;

/**
 * Concrete implementation if {@link org.opensaml.saml1.core.AssertionArtifact}
 */
public class AssertionArtifactImpl extends AbstractSAMLObject implements AssertionArtifact {

    /** The assertion artifact */
    private String assertionArtifact;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AssertionArtifactImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public String getAssertionArtifact() {
        return assertionArtifact;
    }

    /** {@inheritDoc} */
    public void setAssertionArtifact(String assertionArtifact) {
        this.assertionArtifact = prepareForAssignment(this.assertionArtifact, assertionArtifact);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}
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*/

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.Status;
import org.opensaml.saml1.core.StatusCode;
import org.opensaml.saml1.core.StatusDetail;
import org.opensaml.saml1.core.StatusMessage;
import org.opensaml.xml.XMLObject;
```

```
/**
```

```
 * Concrete Implementation { @link org.opensaml.saml1.core.Status }
```

```
*/
```

```
public class StatusImpl extends AbstractSAMLObject implements Status {
```

```
    /** Representation of the StatusMessage element. */
```

```
    private StatusMessage statusMessage;
```

```
    /** Representation of the StatusCode element. */
```

```
    private StatusCode statusCode;
```

```
    /** Representation of the StatusDetail element. */
```

```
    private StatusDetail statusDetail;
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected StatusImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
```

```
        super(namespaceURI, elementLocalName, namespacePrefix);
```

```
    }
```

```
    /** { @inheritDoc } */
```

```
    public StatusMessage getStatusMessage() {
```

```
        return statusMessage;
```

```

}

/** {@inheritDoc} */
public void setStatusMessage(StatusMessage statusMessage) throws IllegalArgumentException {
    this.statusMessage = prepareForAssignment(this.statusMessage, statusMessage);
}

/** {@inheritDoc} */
public StatusCode getStatusCode() {
    return statusCode;
}

/** {@inheritDoc} */
public void setStatusCode(StatusCode statusCode) throws IllegalArgumentException {
    this.statusCode = prepareForAssignment(this.statusCode, statusCode);
}

/** {@inheritDoc} */
public StatusDetail getStatusDetail() {
    return statusDetail;
}

/** {@inheritDoc} */
public void setStatusDetail(StatusDetail statusDetail) throws IllegalArgumentException {
    this.statusDetail = prepareForAssignment(this.statusDetail, statusDetail);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>(3);

    if (statusCode != null) {
        children.add(statusCode);
    }

    if (statusMessage != null) {
        children.add(statusMessage);
    }

    if (statusDetail != null) {
        children.add(statusDetail);
    }

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}

```

```

    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.DoNotCacheCondition;
import org.opensaml.xml.XMLObject;

/**
 * Concrete Implementation of a {@link org.opensaml.saml1.core.DoNotCacheCondition} Objects.
 */
public class DoNotCacheConditionImpl extends AbstractSAMLObject implements DoNotCacheCondition {

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected DoNotCacheConditionImpl(String namespaceURI, String elementLocalName, String namespacePrefix)
    {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}

```

```

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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.joda.time.DateTime;
import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.common.xml.SAMLConstants;
import org.opensaml.saml1.core.AudienceRestrictionCondition;
import org.opensaml.saml1.core.Condition;
import org.opensaml.saml1.core.Conditions;
import org.opensaml.saml1.core.DoNotCacheCondition;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;

/**
 * This is a concrete implementation of the {@link org.opensaml.saml1.core.Conditions} interface.
 */
public class ConditionsImpl extends AbstractSAMLObject implements Conditions {

    /** Value saved in the NotBefore attribute */
    private DateTime notBefore;

    /** Value saved in the NotOnOrAfter attribute */
    private DateTime notOnOrAfter;

    /** Set containing all the Conditions */
    private final IndexedXMLObjectChildrenList<Condition> conditions;

```



```

/**
 * Constructor
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected ConditionsImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    conditions = new IndexedXMLObjectChildrenList<Condition>(this);
}

/** {@inheritDoc} */
public DateTime getNotBefore() {
    return notBefore;
}

/** {@inheritDoc} */
public void setNotBefore(DateTime notBefore) {
    this.notBefore = prepareForAssignment(this.notBefore, notBefore);
}

/** {@inheritDoc} */
public DateTime getNotOnOrAfter() {
    return notOnOrAfter;
}

/** {@inheritDoc} */
public void setNotOnOrAfter(DateTime notOnOrAfter) {
    this.notOnOrAfter = prepareForAssignment(this.notOnOrAfter, notOnOrAfter);
}

/** {@inheritDoc} */
public List<Condition> getConditions() {
    return conditions;
}

/** {@inheritDoc} */
public List<Condition> getConditions(QName typeOrName) {
    return conditions;
}

/** {@inheritDoc} */
public List<AudienceRestrictionCondition> getAudienceRestrictionConditions() {
    QName qname = new QName(SAMLConstants.SAML1_NS,
AudienceRestrictionCondition.DEFAULT_ELEMENT_LOCAL_NAME);
    return (List<AudienceRestrictionCondition>) conditions.subList(qname);
}

```

```

/** {@inheritDoc} */
public List<DoNotCacheCondition> getDoNotCacheConditions() {
    QName qname = new QName(SAMLConstants.SAML1_NS,
DoNotCacheCondition.DEFAULT_ELEMENT_LOCAL_NAME);
    return (List<DoNotCacheCondition>) conditions.subList(qname);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    if (conditions.size() == 0) {
        return null;
    }
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();
    children.addAll(conditions);
    return Collections.unmodifiableList(children);
}
}
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*/

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.saml1.core.AssertionArtifact;
import org.opensaml.saml1.core.AssertionIDReference;
import org.opensaml.saml1.core.AttributeQuery;
import org.opensaml.saml1.core.AuthenticationQuery;
import org.opensaml.saml1.core.AuthorizationDecisionQuery;
import org.opensaml.saml1.core.Query;
import org.opensaml.saml1.core.Request;
import org.opensaml.saml1.core.SubjectQuery;

```

```

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Concrete implementation of {@link org.opensaml.saml1.core.Request}
 */
public class RequestImpl extends RequestAbstractTypeImpl implements Request {

    /** Saves the query (one of Query, SubjectQuery, AuthenticationQuery, AttributeQuery,
    AuthorizationDecisionQuery */
    private Query query;

    /** The List of AssertionIDReferences */
    private final XMLObjectChildrenList<AssertionIDReference> assertionIDReferences;

    /** The List of AssertionArtifacts */
    private final XMLObjectChildrenList<AssertionArtifact> assertionArtifacts;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected RequestImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        assertionIDReferences = new XMLObjectChildrenList<AssertionIDReference>(this);
        assertionArtifacts = new XMLObjectChildrenList<AssertionArtifact>(this);
    }

    /** {@inheritDoc} */
    public Query getQuery() {
        return query;
    }

    /** {@inheritDoc} */
    public SubjectQuery getSubjectQuery() {
        return (query instanceof SubjectQuery ? (SubjectQuery) query : null);
    }

    /** {@inheritDoc} */
    public AttributeQuery getAttributeQuery() {
        return (query instanceof AttributeQuery ? (AttributeQuery) query : null);
    }

    /** {@inheritDoc} */
    public AuthenticationQuery getAuthenticationQuery() {

```

```

    return (query instanceof AuthenticationQuery ? (AuthenticationQuery) query : null);
}

/** {@inheritDoc} */
public AuthorizationDecisionQuery getAuthorizationDecisionQuery() {
    return (query instanceof AuthorizationDecisionQuery ? (AuthorizationDecisionQuery) query : null);
}

/** {@inheritDoc} */
public void setQuery(Query query) throws IllegalArgumentException {
    this.query = prepareForAssignment(this.query, query);
}

/** {@inheritDoc} */
public List<AssertionIDReference> getAssertionIDReferences() {
    return assertionIDReferences;
}

/** {@inheritDoc} */
public List<AssertionArtifact> getAssertionArtifacts() {
    return assertionArtifacts;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {

    List<XMLObject> list = new ArrayList<XMLObject>();

    if (super.getOrderedChildren() != null) {
        list.addAll(super.getOrderedChildren());
    }
    if (query != null) {
        list.add(query);
    }
    if (assertionIDReferences.size() != 0) {
        list.addAll(assertionIDReferences);
    }
    if (assertionArtifacts.size() != 0) {
        list.addAll(assertionArtifacts);
    }

    if (list.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(list);
}
}

```

```

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 */

/**
 *
 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.AttributeDesignator;
import org.opensaml.xml.XMLObject;

/**
 * Concrete Implementation of the {@link org.opensaml.saml1.core.AttributeDesignator} interface.
 */
public class AttributeDesignatorImpl extends AbstractSAMLObject implements AttributeDesignator {

    /** Contains the AttributeName */
    private String attributeName;

    /** Contains the AttributeNamespace */
    private String attributeNamespace;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected AttributeDesignatorImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

```

```

}

/** {@inheritDoc} */
public String getAttributeName() {
    return attributeName;
}

/** {@inheritDoc} */
public void setAttributeName(String attributeName) {
    this.attributeName = prepareForAssignment(this.attributeName, attributeName);
}

/** {@inheritDoc} */
public String getAttributeNamespace() {
    return attributeNamespace;
}

/** {@inheritDoc} */
public void setAttributeNamespace(String attributeNamespace) {
    this.attributeNamespace = prepareForAssignment(this.attributeNamespace, attributeNamespace);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return null;
}
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;

```

```

import org.opensaml.saml1.core.Action;
import org.opensaml.xml.XMLObject;

/**
 * Concrete implementation of {@link org.opensaml.saml1.core.Action}
 */
public class ActionImpl extends AbstractSAMLObject implements Action {

    /** Place to store the namespace */
    private String namespace;

    /** Where to store the contents */
    private String contents;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected ActionImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public String getNamespace() {
        return namespace;
    }

    /** {@inheritDoc} */
    public void setNamespace(String namespace) {
        this.namespace = prepareForAssignment(this.namespace, namespace);
    }

    /** {@inheritDoc} */
    public String getContents() {
        return contents;
    }

    /** {@inheritDoc} */
    public void setContents(String contents) {
        this.contents = prepareForAssignment(this.contents, contents);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        // No elements
    }
}

```

```

        return null;
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.List;

import org.opensaml.common.impl.AbstractSAMLObject;
import org.opensaml.saml1.core.NameIdentifier;
import org.opensaml.xml.XMLObject;

/**
 * Complete implementation of {@link org.opensaml.saml1.core.impl.NameIdentifierImpl}
 */
public class NameIdentifierImpl extends AbstractSAMLObject implements NameIdentifier {

    /** Contents of the NameQualifierAttribute */
    String nameQualifier;

    /** Contents of the Format */
    String format;

    /** Contents of the elemen body */
    String nameIdentifier;

    /**
     * Constructor
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
}

```



```

protected NameIdentifierImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public String getNameQualifier() {
    return nameQualifier;
}

/** {@inheritDoc} */
public String getFormat() {
    return this.format;
}

/** {@inheritDoc} */
public String getNameIdentifier() {
    return nameIdentifier;
}

/** {@inheritDoc} */
public void setNameQualifier(String nameQualifier) {
    this.nameQualifier = prepareForAssignment(this.nameQualifier, nameQualifier);
}

public void setFormat(String format) {
    this.format = prepareForAssignment(this.format, format);
}

public void setNameIdentifier(String nameIdentifier) {
    this.nameIdentifier = prepareForAssignment(this.nameIdentifier, nameIdentifier);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return null;
}
}
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```

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*/

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.Collections;  
import java.util.List;
```

```
import org.opensaml.saml1.core.Attribute;  
import org.opensaml.xml.XMLObject;  
import org.opensaml.xml.util.XMLObjectChildrenList;
```

```
/**
```

```
* A Concrete implementation of the { @link org.opensaml.saml1.core.Attribute } Interface  
*/
```

```
public class AttributeImpl extends AttributeDesignatorImpl implements Attribute {
```

```
    /** Contains the AttributeValues */
```

```
    private final XMLObjectChildrenList<XMLObject> attributeValues;
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected AttributeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {  
        super(namespaceURI, elementLocalName, namespacePrefix);  
        attributeValues = new XMLObjectChildrenList<XMLObject>(this);  
    }
```

```
    /** { @inheritDoc } */
```

```
    public List<XMLObject> getAttributeValues() {  
        return attributeValues;  
    }
```

```
    /** { @inheritDoc } */
```

```
    public List<XMLObject> getOrderedChildren() {  
        return Collections.unmodifiableList(attributeValues);  
    }
```

```
}
```

```
/*
```

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 */

```
package org.opensaml.saml1.core.impl;
```

```
import java.util.List;
```

```
import org.opensaml.common.impl.AbstractSAMLObject;
```

```
import org.opensaml.saml1.core.Audience;
```

```
import org.opensaml.xml.XMLObject;
```

```
/**
```

```
 * Concrete class implementation of { @link org.opensaml.saml1.core.Audience }
```

```
 */
```

```
public class AudienceImpl extends AbstractSAMLObject implements Audience {
```

```
    /** String to hold the URI */
```

```
    private String uri;
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected AudienceImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
```

```
        super(namespaceURI, elementLocalName, namespacePrefix);
```

```
    }
```

```
    /** { @inheritDoc } */
```

```
    public String getUri() {
```

```
        return uri;
```

```
    }
```

```
    /** { @inheritDoc } */
```

```
    public void setUri(String uri) {
```

```
        this.uri = prepareForAssignment(this.uri, uri);
```

```

    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return null;
    }
}
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 */

package org.opensaml.saml1.core.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.joda.time.DateTime;
import org.opensaml.common.SAMLVersion;
import org.opensaml.common.impl.AbstractSignableSAMLObject;
import org.opensaml.saml1.core.RequestAbstractType;
import org.opensaml.saml1.core.RespondWith;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.XMLObjectChildrenList;

/**
 * Implementation of {@link org.opensaml.saml1.core.RequestAbstractType}.
 */
public abstract class RequestAbstractTypeImpl extends AbstractSignableSAMLObject implements
RequestAbstractType {

    /** Contains the ID */
    private String id;

    /** Containt the IssueInstant */
    private DateTime issueInstant;

```

```

/** Version of this SAML message */
private SAMLVersion version;

/** Contains the respondWiths */
public final XMLObjectChildrenList<RespondWith> respondWiths;

/**
 * Constructor
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected RequestAbstractTypeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    version = SAMLVersion.VERSION_11;
    respondWiths = new XMLObjectChildrenList<RespondWith>(this);
}

/** {@inheritDoc} */
public String getID() {
    return id;
}

/** {@inheritDoc} */
public void setID(String id) {
    String oldID = this.id;
    this.id = prepareForAssignment(this.id, id);
    registerOwnID(oldID, this.id);
}

/** {@inheritDoc} */
public int getMajorVersion() {
    return version.getMajorVersion();
}

/** {@inheritDoc} */
public int getMinorVersion() {
    return version.getMinorVersion();
}

/** {@inheritDoc} */
public void setVersion(SAMLVersion newVersion) {
    version = prepareForAssignment(version, newVersion);
}

/** {@inheritDoc} */

```

```

public DateTime getIssueInstant() {
    return issueInstant;
}

/** {@inheritDoc} */
public void setIssueInstant(DateTime instant) {
    this.issueInstant = prepareForAssignment(this.issueInstant, instant);
}

/** {@inheritDoc} */
public List<RespondWith> getRespondWiths() {
    return respondWiths;
}

/** {@inheritDoc} */
public String getSignatureReferenceID(){
    return id;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    List<XMLObject> children = new ArrayList<XMLObject>();

    children.addAll(respondWiths);

    if(getSignature() != null){
        children.add(getSignature());
    }

    return Collections.unmodifiableList(children);
}
}

```

1.502 openws 1.4.1

1.502.1 Available under license :

<?xml version="1.0" encoding="UTF-8"?>

<!--

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-->

<xs:schema

targetNamespace="http://schemas.xmlsoap.org/ws/2004/09/policy"

xmlns:tns="http://schemas.xmlsoap.org/ws/2004/09/policy"

xmlns:xs="http://www.w3.org/2001/XMLSchema"

xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"

xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"

elementFormDefault="qualified"

blockDefault="#all" >

<xs:import

namespace="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"

schemaLocation="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd" />

<xs:import

namespace="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"

schemaLocation="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" />

<!-- ////////// WS-Policy ////////// -->

<xs:element name="Policy" >

<xs:complexType>

<xs:complexContent>

<xs:extension base="tns:OperatorContentType" >

<xs:attribute name="Name" type="xs:anyURI" />

<xs:attribute ref="wsu:Id" />

<xs:anyAttribute namespace="##any" processContents="lax" />

```

    </xs:extension>
  </xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="All" type="tns:OperatorContentType" />
<xs:element name="ExactlyOne" type="tns:OperatorContentType" />

<xs:complexType name="OperatorContentType" >
  <xs:sequence>
    <xs:choice minOccurs="0" maxOccurs="unbounded" >
      <xs:element ref="tns:Policy" />
      <xs:element ref="tns:All" />
      <xs:element ref="tns:ExactlyOne" />
      <xs:element ref="tns:PolicyReference" />
      <xs:any namespace="##other" processContents="lax" />
    </xs:choice>
  </xs:sequence>
</xs:complexType>

<xs:element name="PolicyReference" >
  <xs:complexType>
    <xs:attribute name="URI" type="xs:anyURI" use="required" />
    <xs:attribute name="Digest" type="xs:base64Binary" />
    <xs:attribute name="DigestAlgorithm"
      type="xs:anyURI"
      default="http://schemas.xmlsoap.org/ws/2004/09/policy/Sha1Exc"
    />
    <xs:anyAttribute namespace="##any" processContents="lax" />
  </xs:complexType>
</xs:element>

<xs:attribute name="Optional" type="xs:boolean" default="false" />

<!-- ////////// WS-PolicyAttachment ////////// -->

<xs:attribute name="PolicyURIs" >
  <xs:simpleType>
    <xs:list itemType="xs:anyURI" />
  </xs:simpleType>
</xs:attribute>

<xs:element name="PolicyAttachment" >
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="tns:AppliesTo" />
      <xs:choice maxOccurs="unbounded" >
        <xs:element ref="tns:Policy" />
        <xs:element ref="tns:PolicyReference" />
      </xs:choice>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```



```

    </xs:choice>
    <!-- omitted only because it causes the content model to be non-deterministic
    <xs:element ref="wsse:Security" minOccurs="0" />
-->
    <xs:any namespace="##other"
    processContents="lax"
    minOccurs="0"
    maxOccurs="unbounded" />
</xs:sequence>
<xs:anyAttribute namespace="##any" processContents="lax" />
</xs:complexType>
</xs:element>

<xs:element name="AppliesTo" >
  <xs:complexType>
    <xs:sequence>
      <xs:any namespace="##any"
      processContents="lax"
      maxOccurs="unbounded" />
    </xs:sequence>
    <xs:anyAttribute namespace="##any" processContents="lax" />
  </xs:complexType>
</xs:element>

</xs:schema>
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*/

package org.opensaml.util;

import java.util.HashMap;
import java.util.Map;

/**
* This class performs simple canonicalization of a URL as follows:

```

```

*
* <p>
* <ul>
* <li>The scheme is lower-cased.</li>
* <li>The hostname is lower-cased</li>
* <li>The port is removed if it is the default port registered for the scheme</li>
* </ul>
* </p>
*
* <p>
* </p>
*/
public final class SimpleURLCanonicalizer {

    /** The scheme-to-port mapping data. */
    private static Map<String, Integer> schemePortMap = new HashMap<String, Integer>();

    /** Constructor to prevent instantiation. */
    private SimpleURLCanonicalizer() {}

    /**
     * Register a new scheme-to-port mapping.
     *
     * @param scheme the scheme to register
     * @param port the default port for that scheme
     */
    public static void registerSchemePortMapping(String scheme, Integer port) {
        if (scheme == null || port == null) {
            throw new IllegalArgumentException("Scheme and port may not be null");
        }
        schemePortMap.put(scheme.toLowerCase(), port);
    }

    /**
     * Deregister a scheme-to-port mapping.
     *
     * @param scheme the scheme to deregister
     */
    public static void deregisterSchemePortMapping(String scheme) {
        if (scheme == null) {
            throw new IllegalArgumentException("Scheme may not be null");
        }
        schemePortMap.remove(scheme.toLowerCase());
    }

    /**
     * Obtain the default port registered for a scheme.
     */

```

```

* @param scheme the scheme to look up
* @return the default port registered for the scheme, or null if none registered
*/
public static Integer getRegisteredPort(String scheme) {
    return schemePortMap.get(scheme.toLowerCase());
}

/**
* Canonicalize the supplied URL.
*
* @param url the URL to canonicalize
* @return the canonicalized URL
*/
public static String canonicalize(String url) {
    URLBuilder urlBuilder = new URLBuilder(url);
    canonicalize(urlBuilder);
    return urlBuilder.buildURL();
}

/**
* Canonicalize the supplied URLBuilder data.
*
* @param url the URLBuilder to canonicalize
*/
private static void canonicalize(URLBuilder url) {
    if (url.getScheme() != null) {
        url.setScheme(url.getScheme().toLowerCase());

        String scheme = url.getScheme();
        Integer port = getRegisteredPort(scheme);
        if (port != null && port == url.getPort()) {
            url.setPort(0);
        }
    }

    if (url.getHost() != null) {
        url.setHost(url.getHost().toLowerCase());
    }
}

static {
    registerSchemePortMapping("ftp", 23);
    registerSchemePortMapping("http", 80);
    registerSchemePortMapping("https", 443);
}
}

```

```

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 */

```

```
package org.opensaml.ws.soap.soap11.impl;
```

```
import org.opensaml.ws.soap.soap11.FaultActor;
import org.opensaml.xml.schema.impl.XSURIImpl;
```

```
/**
 * Concrete implementation of {@link org.opensaml.ws.soap.soap11.FaultActor}.
 */

```

```
public class FaultActorImpl extends XSURIImpl implements FaultActor {
```

```

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected FaultActorImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
}

```

```

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*/
```

```
package org.opensaml.ws.soap.soap11.impl;
```

```
import org.opensaml.ws.soap.common.AbstractExtensibleSOAPObject;  
import org.opensaml.ws.soap.soap11.Detail;
```

```
/**
```

```
* Concrete implementation of {@link org.opensaml.ws.soap.soap11.Detail}.  
*/
```

```
public class DetailImpl extends AbstractExtensibleSOAPObject implements Detail {
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI namespace of the element
```

```
     * @param elementLocalName name of the element
```

```
     * @param namespacePrefix namespace prefix of the element
```

```
     */
```

```
    protected DetailImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {  
        super(namespaceURI, elementLocalName, namespacePrefix);  
    }  
}
```

```
/*
```

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```
*/
```

```
package org.opensaml.ws.soap.soap11.impl;
```

```
import org.opensaml.ws.soap.common.AbstractExtensibleSOAPObject;  
import org.opensaml.ws.soap.soap11.Body;
```

```
/**
```

```

* Concrete implementation of { @link org.opensaml.ws.soap.soap11.Body}.
*/
public class BodyImpl extends AbstractExtensibleSOAPObject implements Body {

    /**
     * Constructor.
     *
     * @param namespaceURI namespace of the element
     * @param elementLocalName name of the element
     * @param namespacePrefix namespace prefix of the element
     */
    protected BodyImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
}
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*/

package org.opensaml.ws.soap.soap11.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.ws.soap.soap11.Detail;
import org.opensaml.ws.soap.soap11.Fault;
import org.opensaml.ws.soap.soap11.FaultActor;
import org.opensaml.ws.soap.soap11.FaultCode;
import org.opensaml.ws.soap.soap11.FaultString;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

/**
 * Concrete implementation of { @link org.opensaml.ws.soap.soap11.Fault}.
 */

```

```

public class FaultImpl extends AbstractValidatingXMLObject implements Fault {

    /** Fault code. */
    private FaultCode faultCode;

    /** Fault message. */
    private FaultString message;

    /** Actor that faulted. */
    private FaultActor actor;

    /** Details of the fault. */
    private Detail detail;

    /**
     * Constructor.
     *
     * @param namespaceURI namespace of the element
     * @param elementLocalName name of the element
     * @param namespacePrefix namespace prefix of the element
     */
    protected FaultImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public FaultCode getCode() {
        return faultCode;
    }

    /** {@inheritDoc} */
    public void setCode(FaultCode newFaultCode) {
        faultCode = prepareForAssignment(faultCode, newFaultCode);
    }

    /** {@inheritDoc} */
    public FaultString getMessage() {
        return message;
    }

    /** {@inheritDoc} */
    public void setMessage(FaultString newMessage) {
        message = prepareForAssignment(message, newMessage);
    }

    /** {@inheritDoc} */
    public FaultActor getActor() {
        return actor;
    }
}

```

```

    }

    /** {@inheritDoc} */
    public void setActor(FaultActor newActor) {
        actor = prepareForAssignment(actor, newActor);
    }

    /** {@inheritDoc} */
    public Detail getDetail() {
        return detail;
    }

    /** {@inheritDoc} */
    public void setDetail(Detail newDetail) {
        detail = prepareForAssignment(detail, newDetail);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        ArrayList<XMLObject> children = new ArrayList<XMLObject>();

        children.add(faultCode);
        children.add(message);
        children.add(actor);
        children.add(detail);

        return Collections.unmodifiableList(children);
    }
}
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 */

package org.opensaml.ws.soap.soap11.impl;

import org.opensaml.ws.soap.soap11.FaultCode;

```



```

import org.opensaml.xml.schema.impl.XSQNameImpl;

/**
 * Concrete implementation of {@link org.opensaml.ws.soap.soap11.FaultCode}.
 */
public class FaultCodeImpl extends XSQNameImpl implements FaultCode {

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected FaultCodeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
}

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 */

package org.opensaml.ws.soap.soap11.impl;

import org.opensaml.ws.soap.common.AbstractExtensibleSOAPObject;
import org.opensaml.ws.soap.soap11.Header;

/**
 * Concrete implementation of {@link org.opensaml.ws.soap.soap11.Header}.
 */
public class HeaderImpl extends AbstractExtensibleSOAPObject implements Header {

    /**
     * Constructor.
     *
     * @param namespaceURI namespace of the element

```

```

* @param elementLocalName name of the element
* @param namespacePrefix namespace prefix of the element
*/
protected HeaderImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}
}
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*/

package org.opensaml.ws.soap.soap11.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.ws.soap.common.AbstractExtensibleSOAPObject;
import org.opensaml.ws.soap.soap11.Body;
import org.opensaml.ws.soap.soap11.Envelope;
import org.opensaml.ws.soap.soap11.Header;
import org.opensaml.xml.XMLObject;

/**
 * Concrete implementation of {@link org.opensaml.ws.soap.soap11.Envelope}.
 */
public class EnvelopeImpl extends AbstractExtensibleSOAPObject implements Envelope {

    /** SOAP header. */
    private Header header;

    /** SOAP body. */
    private Body body;

    /**
     * Constructor.

```

```

*
* @param namespaceURI namespace of the element
* @param elementLocalName name of the element
* @param namespacePrefix namespace prefix of the element
*/
protected EnvelopeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public Header getHeader() {
    return header;
}

/** {@inheritDoc} */
public void setHeader(Header newHeader) {
    header = prepareForAssignment(header, newHeader);
}

/** {@inheritDoc} */
public Body getBody() {
    return body;
}

/** {@inheritDoc} */
public void setBody(Body newBody) {
    body = prepareForAssignment(body, newBody);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();

    children.add(header);
    children.add(body);
    children.addAll(super.getOrderedChildren());

    return Collections.unmodifiableList(children);
}
}
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package org.opensaml.ws.soap.soap11.impl;

import org.opensaml.ws.soap.soap11.FaultString;
import org.opensaml.xml.schema.impl.XSSStringImpl;

/**
 * Concrete implementation of { @link org.opensaml.ws.soap.soap11.FaultString }.
 */
public class FaultStringImpl extends XSSStringImpl implements FaultString {

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected FaultStringImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
}

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*/

package org.opensaml.ws.wsaddressing.impl;

```

```

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.ws.wsaddressing.ReferenceParameters;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.AttributeMap;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;

/**
 * ReferenceParametersImpl.
 *
 */
public class ReferenceParametersImpl extends AbstractWSAddressingObject implements ReferenceParameters {

    /** Wildcard attributes. */
    private AttributeMap unknownAttributes;

    /** Wildcard child elements. */
    private IndexedXMLObjectChildrenList<XMLObject> unknownChildren;

    /**
     * Constructor.
     *
     * @param namespaceURI The namespace of the element
     * @param elementLocalName The local name of the element
     * @param namespacePrefix The namespace prefix of the element
     */
    public ReferenceParametersImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        unknownAttributes = new AttributeMap(this);
        unknownChildren = new IndexedXMLObjectChildrenList<XMLObject>(this);
    }

    /** {@inheritDoc} */
    public AttributeMap getUnknownAttributes() {
        return unknownAttributes;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getUnknownXMLObjects() {
        return unknownChildren;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getUnknownXMLObjects(QName typeOrName) {

```

```

        return (List<XMLObject>) unknownChildren.subList(typeOrName);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        ArrayList<XMLObject> children = new ArrayList<XMLObject>();

        if (!getUnknownXMLObjects().isEmpty()) {
            children.addAll(getUnknownXMLObjects());
        }

        return Collections.unmodifiableList(children);
    }
}

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 */

package org.opensaml.ws.wsaddressing.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.ws.wsaddressing.Address;
import org.opensaml.ws.wsaddressing.EndpointReferenceType;
import org.opensaml.ws.wsaddressing.Metadata;
import org.opensaml.ws.wsaddressing.ReferenceParameters;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.AttributeMap;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;

```

```

/**
 * Abstract implementation of the element of type { @link EndpointReferenceType }.
 *
 */
public class EndpointReferenceTypeImpl extends AbstractWSAddressingObject implements
EndpointReferenceType {

    /** { @link Address } child element. */
    private Address address;

    /** Optional { @link Metadata } child element. */
    private Metadata metadata;

    /** Optional { @link ReferenceParameters } child element. */
    private ReferenceParameters referenceParameters;

    /** Wildcard child elements. */
    private IndexedXMLObjectChildrenList<XMLObject> unknownChildren;

    /** Wildcard attributes. */
    private AttributeMap unknownAttributes;

    /**
     * Constructor.
     *
     * @param namespaceURI The namespace of the element
     * @param elementLocalName The local name of the element
     * @param namespacePrefix The namespace prefix of the element
     */
    public EndpointReferenceTypeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        unknownChildren = new IndexedXMLObjectChildrenList<XMLObject>(this);
        unknownAttributes = new AttributeMap(this);
    }

    /** { @inheritDoc } */
    public Address getAddress() {
        return address;
    }

    /** { @inheritDoc } */
    public void setAddress(Address newAddress) {
        address = prepareForAssignment(address, newAddress);
    }

    /** { @inheritDoc } */
    public Metadata getMetadata() {
        return metadata;
    }

```

```

}

/** {@inheritDoc} */
public void setMetadata(Metadata newMetadata) {
    metadata = prepareForAssignment(metadata, newMetadata);
}

/** {@inheritDoc} */
public ReferenceParameters getReferenceParameters() {
    return referenceParameters;
}

/** {@inheritDoc} */
public void setReferenceParameters(ReferenceParameters newReferenceParameters) {
    referenceParameters = prepareForAssignment(referenceParameters, newReferenceParameters);
}

/** {@inheritDoc} */
public AttributeMap getUnknownAttributes() {
    return unknownAttributes;
}

/** {@inheritDoc} */
public List<XMLObject> getUnknownXMLObjects() {
    return unknownChildren;
}

/** {@inheritDoc} */
public List<XMLObject> getUnknownXMLObjects(QName typeOrName) {
    return (List<XMLObject>) unknownChildren.subList(typeOrName);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();
    if (address != null) {
        children.add(address);
    }
    if (referenceParameters != null) {
        children.add(referenceParameters);
    }
    if (metadata != null) {
        children.add(metadata);
    }

    // xs:any element
    if (!getUnknownXMLObjects().isEmpty()) {
        children.addAll(getUnknownXMLObjects());
    }
}

```



```

    }

    return Collections.unmodifiableList(children);
}

}
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 */

package org.opensaml.ws.wsaddressing.impl;

import org.opensaml.ws.wsaddressing.FaultTo;

/**
 * Concrete implementation of element { @link FaultTo}.
 */
public class FaultToImpl extends EndpointReferenceTypeImpl implements FaultTo {

    /**
     * Constructor.
     *
     * @param namespaceURI The namespace of the element
     * @param elementLocalName The local name of the element
     * @param namespacePrefix The namespace prefix of the element
     */
    public FaultToImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

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*/

```

```
package org.opensaml.ws.wsaddressing.impl;
```

```
import org.opensaml.ws.wsaddressing.ReplyTo;
```

```
/**
```

```
 * Concrete implementation of element { @link ReplyTo }.

```

```
 *

```

```
 */

```

```
public class ReplyToImpl extends EndpointReferenceTypeImpl implements ReplyTo {

```

```
    /**

```

```
     * Constructor.

```

```
     *

```

```
     * @param namespaceURI The namespace of the element

```

```
     * @param elementLocalName The local name of the element

```

```
     * @param namespacePrefix The namespace prefix of the element

```

```
     */

```

```
    public ReplyToImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

```

```

}

```

```
/**

```

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*/
```

```
package org.opensaml.ws.wsaddressing.impl;
```

```
import org.opensaml.ws.wsaddressing.Address;
```

```
/**
```

```
 * AddressImpl is the concrete implementation of { @link Address }.
```

```
 *
```

```
*/
```

```
public class AddressImpl extends AttributedURIImpl implements Address {
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI The namespace of the element
```

```
     * @param elementLocalName The local name of the element
```

```
     * @param namespacePrefix The namespace prefix of the element
```

```
     */
```

```
    public AddressImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
```

```
        super(namespaceURI, elementLocalName, namespacePrefix);
```

```
    }
```

```
 }
```

```
 /*
```

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```

```
*/
```

```
package org.opensaml.ws.wsaddressing.impl;
```

```
import org.opensaml.ws.wsaddressing.From;
```

```

/**
 * Concrete implementation of element { @link From}.
 *
 */
public class FromImpl extends EndpointReferenceTypeImpl implements From {

    /**
     * Constructor.
     *
     * @param namespaceURI The namespace of the element
     * @param elementLocalName The local name of the element
     * @param namespacePrefix The namespace prefix of the element
     */
    public FromImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

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 */

package org.opensaml.ws.wsaddressing.impl;

import org.opensaml.ws.wsaddressing.Action;

/**
 * ActionImpl is the concrete implementation of { @link Action}.
 *
 */
public class ActionImpl extends AttributedURIImpl implements Action {

    /**
     * Constructor.
     *

```

```

    * @param namespaceURI The namespace of the element
    * @param elementLocalName The local name of the element
    * @param namespacePrefix The namespace prefix of the element
    */
    public ActionImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

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 */

package org.opensaml.ws.wsaddressing.impl;

import org.opensaml.ws.wsaddressing.MessageID;

/**
 * Concrete implementation for the {@link MessageID} element.
 */
public class MessageIDImpl extends AttributedURIImpl implements MessageID {

    /**
     * Constructor.
     */
    * @param namespaceURI The namespace of the element
    * @param elementLocalName The local name of the element
    * @param namespacePrefix The namespace prefix of the element
    */
    public MessageIDImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

```

```
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 */
```

```
package org.opensaml.ws.wsaddressing.impl;
```

```
import org.opensaml.ws.wsaddressing.EndpointReference;
```

```
/**
 * Concrete implementation of element { @link EndpointReference}.
 *
 */
```

```
public class EndpointReferenceImpl extends EndpointReferenceTypeImpl implements EndpointReference {
```

```
    /**
     * Constructor.
     *
     * @param namespaceURI The namespace of the element
     * @param elementLocalName The local name of the element
     * @param namespacePrefix The namespace prefix of the element
     */
```

```
    public EndpointReferenceImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
```

```
    }
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*/
```

```
package org.opensaml.ws.wsaddressing.impl;
```

```
import org.opensaml.ws.wsaddressing.AttributedUnsignedLong;
import org.opensaml.xml.util.AttributeMap;
```

```
/**
```

```
 * Implementation of { @link AttributedUnsignedLong }.
```

```
*/
```

```
public class AttributedUnsignedLongImpl extends AbstractWSAddressingObject implements
AttributedUnsignedLong {
```

```
    /** Element's long value. */
```

```
    private Long value;
```

```
    /** Wildcard attributes. */
```

```
    private AttributeMap unknownAttributes;
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI The namespace of the element
```

```
     * @param elementLocalName The local name of the element
```

```
     * @param namespacePrefix The namespace prefix of the element
```

```
     */
```

```
    public AttributedUnsignedLongImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        unknownAttributes = new AttributeMap(this);
    }
```

```
    /** { @inheritDoc } */
```

```
    public AttributeMap getUnknownAttributes() {
        return unknownAttributes;
    }
```

```
    /** { @inheritDoc } */
```

```
    public Long getValue() {
        return value;
    }
```

```
    /** { @inheritDoc } */
```

```
    public void setValue(Long newValue) {
```

```

        value = prepareForAssignment(value, newValue);
    }

}

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 */

package org.opensaml.ws.wsaddressing.impl;

import org.opensaml.ws.wsaddressing.ProblemIRI;

/**
 * ProblemIRIImpl is the concrete implementation of {@link ProblemIRI}.
 */

public class ProblemIRIImpl extends AttributedURIImpl implements ProblemIRI {

    /**
     * Constructor.
     *
     * @param namespaceURI The namespace of the element
     * @param elementLocalName The local name of the element
     * @param namespacePrefix The namespace prefix of the element
     */
    public ProblemIRIImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

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 */

```
package org.opensaml.ws.wsaddressing.impl;
```

```
import org.opensaml.ws.wsaddressing.AttributedQName;
import org.opensaml.xml.schema.impl.XSQNameImpl;
import org.opensaml.xml.util.AttributeMap;
```

```
/**
```

```
* Implementation of { @link AttributedQName }.
```

```
*/
```

```
public class AttributedQNameImpl extends XSQNameImpl implements AttributedQName {
```

```
    /** Wildcard attributes. */
```

```
    private AttributeMap unknownAttributes;
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI The namespace of the element
```

```
     * @param elementLocalName The local name of the element
```

```
     * @param namespacePrefix The namespace prefix of the element
```

```
     */
```

```
    public AttributedQNameImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        unknownAttributes = new AttributeMap(this);
    }
```

```
    /** { @inheritDoc } */
```

```
    public AttributeMap getUnknownAttributes() {
        return unknownAttributes;
    }
```

```
}
```

```
/**
```

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*/

```
package org.opensaml.ws.wsaddressing.impl;
```

```
import org.opensaml.ws.wsaddressing.RetryAfter;
```

```
/**
```

```
 * Implementation of { @link RetryAfter}.
```

```
*/
```

```
public class RetryAfterImpl extends AttributedUnsignedLongImpl implements RetryAfter {
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI The namespace of the element
```

```
     * @param elementLocalName The local name of the element
```

```
     * @param namespacePrefix The namespace prefix of the element
```

```
     */
```

```
    public RetryAfterImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {  
        super(namespaceURI, elementLocalName, namespacePrefix);  
    }  
}
```

```
    }
```

```
    /**
```

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```

```
    */
```

```

package org.opensaml.ws.wsaddressing.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.ws.wsaddressing.Action;
import org.opensaml.ws.wsaddressing.ProblemAction;
import org.opensaml.ws.wsaddressing.SoapAction;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.AttributeMap;

/**
 * Implementation of { @link ProblemAction }.
 */
public class ProblemActionImpl extends AbstractWSAddressingObject implements ProblemAction {

    /** Action child element. */
    private Action action;

    /** SoapAction child element. */
    private SoapAction soapAction;

    /** Wildcard attributes. */
    private AttributeMap unknownAttributes;

    /**
     * Constructor.
     *
     * @param namespaceURI The namespace of the element
     * @param elementLocalName The local name of the element
     * @param namespacePrefix The namespace prefix of the element
     */
    public ProblemActionImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        unknownAttributes = new AttributeMap(this);
    }

    /** { @inheritDoc } */
    public Action getAction() {
        return action;
    }

    /** { @inheritDoc } */
    public SoapAction getSoapAction() {
        return soapAction;
    }
}

```

```

/** {@inheritDoc} */
public void setAction(Action newAction) {
    action = prepareForAssignment(action, newAction);
}

/** {@inheritDoc} */
public void setSoapAction(SoapAction newSoapAction) {
    soapAction = prepareForAssignment(soapAction, newSoapAction);
}

/** {@inheritDoc} */
public AttributeMap getUnknownAttributes() {
    return unknownAttributes;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();
    if (action != null) {
        children.add(action);
    }
    if (soapAction != null) {
        children.add(soapAction);
    }

    return Collections.unmodifiableList(children);
}
}
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 */

package org.opensaml.ws.wsaddressing.impl;

import org.opensaml.ws.wsaddressing.SoapAction;

```

```

import org.opensaml.xml.schema.impl.XSURIImpl;

/**
 * Implementation of { @link SoapAction }.
 */
public class SoapActionImpl extends XSURIImpl implements SoapAction {

    /**
     * Constructor.
     *
     * @param namespaceURI The namespace of the element
     * @param elementLocalName The local name of the element
     * @param namespacePrefix The namespace prefix of the element
     */
    public SoapActionImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

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 */

package org.opensaml.ws.wsaddressing.impl;

import org.opensaml.ws.wsaddressing.ProblemHeaderQName;

/**
 * Concrete implementation for the { @link ProblemHeaderQName } element.
 */
public class ProblemHeaderQNameImpl extends AttributedQNameImpl implements ProblemHeaderQName {

    /**
     * Constructor.
     *

```

```

* @param namespaceURI The namespace of the element
* @param elementLocalName The local name of the element
* @param namespacePrefix The namespace prefix of the element
*/
public ProblemHeaderQNameImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

}

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* limitations under the License.
*/
package org.opensaml.ws.wsaddressing.impl;

import org.opensaml.ws.wsaddressing.To;

/**
* Concrete implementation for the {@link To} element.
*/
public class ToImpl extends AttributedURIImpl implements To {

    /**
    * Constructor.
    *
    * @param namespaceURI The namespace of the element
    * @param elementLocalName The local name of the element
    * @param namespacePrefix The namespace prefix of the element
    */
    public ToImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

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*/

```

```
package org.opensaml.ws.wsaddressing.impl;
```

```
import org.opensaml.ws.wsaddressing.RelatesTo;
import org.opensaml.xml.schema.impl.XSURIImpl;
import org.opensaml.xml.util.AttributeMap;
```

```
/**
```

```
 * Implementation of { @link RelatesTo }.

```

```
*/
```

```
public class RelatesToImpl extends XSURIImpl implements RelatesTo {
```

```
    /** RelationshipType attribute value. */
```

```
    private String relationshipType;
```

```
    /** Wildcard attributes. */
```

```
    private AttributeMap unknownAttributes;
```

```
    /**
```

```
     * Constructor.

```

```
     *

```

```
     * @param namespaceURI The namespace of the element

```

```
     * @param elementLocalName The local name of the element

```

```
     * @param namespacePrefix The namespace prefix of the element

```

```
     */

```

```
    public RelatesToImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        unknownAttributes = new AttributeMap(this);
        // Default attribute value per the schema.
        setRelationshipType(RELATIONSHIP_TYPE_REPLY);
    }

```

```
    /** { @inheritDoc } */
```

```
    public String getRelationshipType() {
```

```
        return relationshipType;
    }

```

```

}

/** {@inheritDoc} */
public void setRelationshipType(String newRelationshipType) {
    relationshipType = prepareForAssignment(relationshipType, newRelationshipType);
}

/** {@inheritDoc} */
public AttributeMap getUnknownAttributes() {
    return unknownAttributes;
}

}
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 */

package org.opensaml.ws.wsaddressing.impl;

import org.opensaml.ws.wsaddressing.AttributedURI;
import org.opensaml.xml.schema.impl.XSURIImpl;
import org.opensaml.xml.util.AttributeMap;

/**
 * AbstractAttributedURIType is the abstract implementation of {@link AttributedURI}.
 */

public class AttributedURIImpl extends XSURIImpl implements AttributedURI {

    /** xs:anyAttribute for this element. */
    private AttributeMap unknownAttributes;

    /**
     * Constructor.
     */
}

```



```

* @param namespaceURI The namespace of the element
* @param elementLocalName The local name of the element
* @param namespacePrefix The namespace prefix of the element
*/
public AttributedURIImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    unknownAttributes = new AttributeMap(this);

}

/** {@inheritDoc} */
public AttributeMap getUnknownAttributes() {
    return unknownAttributes;
}

}
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*/

package org.opensaml.ws.wsaddressing.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.ws.wsaddressing.Metadata;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.AttributeMap;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;

/**
* MetadataImpl.

```

```

*
*/
public class MetadataImpl extends AbstractWSAddressingObject implements Metadata {

    /** Wildcard attributes. */
    private AttributeMap unknownAttributes;

    /** Wildcard child elements. */
    private IndexedXMLObjectChildrenList<XMLObject> unknownChildren;

    /**
     * Constructor.
     *
     * @param namespaceURI The namespace of the element
     * @param elementLocalName The local name of the element
     * @param namespacePrefix The namespace prefix of the element
     */
    public MetadataImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        unknownAttributes = new AttributeMap(this);
        unknownChildren = new IndexedXMLObjectChildrenList<XMLObject>(this);
    }

    /** {@inheritDoc} */
    public AttributeMap getUnknownAttributes() {
        return unknownAttributes;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getUnknownXMLObjects() {
        return unknownChildren;
    }

    /** {@inheritDoc} */
    public List<XMLObject> getUnknownXMLObjects(QName typeOrName) {
        return (List<XMLObject>) unknownChildren.subList(typeOrName);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        ArrayList<XMLObject> children = new ArrayList<XMLObject>();

        if (!getUnknownXMLObjects().isEmpty()) {
            children.addAll(getUnknownXMLObjects());
        }

        return Collections.unmodifiableList(children);
    }
}

```

```

}
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 */
package org.opensaml.ws.wspolicy;

/**
 * WS-Policy 1.2 constants.
 *
 * @see "WS-Policy (http://schemas.xmlsoap.org/ws/2004/09/policy)"
 */
public final class WSPolicyConstants {

    /** WS-Policy namespace. */
    public static final String WSP_NS= "http://schemas.xmlsoap.org/ws/2004/09/policy";

    /** WS-Policy namespace prefix. */
    public static final String WSP_PREFIX= "wsp";

    /** Constructor. Private to prevent instantiation. */
    private WSPolicyConstants() { }

}
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```

```
*/
```

```
package org.opensaml.ws.wspolicy;
```

```
import org.opensaml.xml.XMLObjectBuilder;
```

```
/**
```

```
 * WSPolicyObjectBuilder.
```

```
 *
```

```
 * @param <WSPolicyObjectType> the type of WS-Policy object being built
```

```
 */
```

```
public interface WSPolicyObjectBuilder<WSPolicyObjectType extends WSPolicyObject>
    extends XMLObjectBuilder<WSPolicyObjectType> {
```

```
    /**
```

```
     * Builds a WS-Policy object.
```

```
     *
```

```
     * @return the built object
```

```
     */
```

```
    public WSPolicyObjectType buildObject();
```

```
 }
```

```
 /*
```

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```
 */
```

```
package org.opensaml.ws.wspolicy.impl;
```

```
import org.opensaml.xml.XMLObject;
```

```
import org.opensaml.xml.io.AbstractXMLObjectMarshaller;
```

```
import org.opensaml.xml.io.MarshallingException;
```

```
import org.w3c.dom.Element;
```

```

/**
 * An abstract marshaller implementation for XMLObjects from {@link org.opensaml.ws.wssecurity}.
 */
public abstract class AbstractWSPolicyObjectMarshaller extends AbstractXMLObjectMarshaller {

    /** {@inheritDoc} */
    protected void marshallAttributes(XMLObject xmlObject, Element domElement) throws MarshallingException {

    }

    /** {@inheritDoc} */
    protected void marshallElementContent(XMLObject xmlObject, Element domElement) throws
    MarshallingException {

    }
}
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 */

package org.opensaml.ws.wspolicy.impl;

import org.opensaml.ws.wspolicy.WSPolicyObject;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

/**
 * AbstractWSSecurityObject.
 */
public abstract class AbstractWSPolicyObject extends AbstractValidatingXMLObject implements WSPolicyObject
{

    /**
     * Constructor.
     */

```

```

*
* @param namespaceURI The namespace of the element
* @param elementLocalName The local name of the element
* @param namespacePrefix The namespace prefix of the element
*/
public AbstractWSPolicyObject(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}
}
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package org.opensaml.ws.wspolicy.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.ws.wspolicy.All;
import org.opensaml.ws.wspolicy.ExactlyOne;
import org.opensaml.ws.wspolicy.OperatorContentType;
import org.opensaml.ws.wspolicy.Policy;
import org.opensaml.ws.wspolicy.PolicyReference;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;

/**
 * OperatorContentTypeImpl.
 */
public class OperatorContentTypeImpl extends AbstractWSPolicyObject implements OperatorContentType {

    /** All child elements. */

```

```

private IndexedXMLObjectChildrenList<XMLObject> xmlObjects;

/**
 * Constructor.
 *
 * @param namespaceURI The namespace of the element
 * @param elementLocalName The local name of the element
 * @param namespacePrefix The namespace prefix of the element
 */
public OperatorContentTypeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    xmlObjects = new IndexedXMLObjectChildrenList<XMLObject>(this);
}

/** {@inheritDoc} */
public List<All> getAlls() {
    return (List<All>) xmlObjects.subList(All.ELEMENT_NAME);
}

/** {@inheritDoc} */
public List<ExactlyOne> getExactlyOnes() {
    return (List<ExactlyOne>) xmlObjects.subList(ExactlyOne.ELEMENT_NAME);
}

/** {@inheritDoc} */
public List<Policy> getPolicies() {
    return (List<Policy>) xmlObjects.subList(Policy.ELEMENT_NAME);
}

/** {@inheritDoc} */
public List<PolicyReference> getPolicyReferences() {
    return (List<PolicyReference>) xmlObjects.subList(PolicyReference.ELEMENT_NAME);
}

/** {@inheritDoc} */
public List<XMLObject> getXMLObjects() {
    return xmlObjects;
}

/** {@inheritDoc} */
public List<XMLObject> getXMLObjects(QName typeOrName) {
    return (List<XMLObject>) xmlObjects.subList(typeOrName);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();
    children.addAll(xmlObjects);
}

```

```
        return Collections.unmodifiableList(children);
    }

}
```

1.503 org.apache.felix.gogo.command

0.8.0.v201108120515

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*/

```
package org.apache.jasper.compiler;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.InputStream;
import java.io.PrintWriter;
import java.io.StringWriter;
import java.net.JarURLConnection;
import java.net.URL;
import java.util.Collection;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;
import java.util.ArrayList;
import java.util.List;
import java.util.jar.JarFile;
import java.util.zip.ZipEntry;

import javax.servlet.jsp.tagext.FunctionInfo;
import javax.servlet.jsp.tagext.PageData;
import javax.servlet.jsp.tagext.TagAttributeInfo;
import javax.servlet.jsp.tagext.TagExtraInfo;
import javax.servlet.jsp.tagext.TagFileInfo;
import javax.servlet.jsp.tagext.TagInfo;
import javax.servlet.jsp.tagext.TagLibraryInfo;
import javax.servlet.jsp.tagext.TagLibraryValidator;
import javax.servlet.jsp.tagext.TagVariableInfo;
import javax.servlet.jsp.tagext.ValidationMessage;
import javax.servlet.jsp.tagext.VariableInfo;

import org.apache.jasper.Constants;
import org.apache.jasper.JasperException;
import org.apache.jasper.JspCompilationContext;
import org.apache.jasper.xmlparser.ParserUtils;
import org.apache.jasper.xmlparser.TreeNode;
import org.apache.jasper.runtime.TldScanner;

/**
 * Implementation of the TagLibraryInfo class from the JSP spec.
 *
 * @author Anil K. Vijendran
 * @author Mandar Raje
 * @author Pierre Delisle
```

```

* @author Kin-man Chung
* @author Jan Luehe
*/
public class TagLibraryInfoImpl extends TagLibraryInfo implements TagConstants {
    private JspCompilationContext ctxt;
    private ErrorDispatcher err;
    private ParserController parserController;
    private PageInfo pageInfo;

    private final void print(String name, String value, PrintWriter w) {
        if (value != null) {
            w.print(name+" = {\n\t");
            w.print(value);
            w.print("\n}\n");
        }
    }

    public String toString() {
        StringWriter sw = new StringWriter();
        PrintWriter out = new PrintWriter(sw);
        print("tlibversion", tlibversion, out);
        print("jspversion", jspversion, out);
        print("shortname", shortname, out);
        print("urn", urn, out);
        print("info", info, out);
        print("uri", uri, out);
        print("tagLibraryValidator", tagLibraryValidator.toString(), out);

        for(int i = 0; i < tags.length; i++)
            out.println(tags[i].toString());

        for(int i = 0; i < tagFiles.length; i++)
            out.println(tagFiles[i].toString());

        for(int i = 0; i < functions.length; i++)
            out.println(functions[i].toString());

        return sw.toString();
    }

    // XXX FIXME
    // resolveRelativeUri and/or getResourceAsStream don't seem to properly
    // handle relative paths when dealing when home and getDocBase are set
    // the following is a workaround until these problems are resolved.
    private InputStream getResourceAsStream(String uri)
        throws JasperException
    {
        try {

```



```

    // see if file exists on the filesystem first
    String real = ctxt.getRealPath(uri);
    if (real == null) {
        return ctxt.getResourceAsStream(uri);
    } else {
        return new FileInputStream(real);
    }
}
}
catch (FileNotFoundException ex) {
    // if file not found on filesystem, get the resource through
    // the context
    return ctxt.getResourceAsStream(uri);
}
}

}

/**
 * Constructor which populates a TagLibraryInfoImpl from a given
 * TagLibraryInfoImpl, and associates the new TagLibraryInfoImpl with the
 * given translation unit (pageInfo).
 *
 * @param prefix The taglib's namespace prefix
 * @param uri The taglib's uri
 * @param delegate The taglib from which the new TagLibraryInfoImpl is
 * populated
 * @param pageInfo The translation unit with which the new TagLibraryInfoImpl is
 * to be associated
 */
public TagLibraryInfoImpl(String prefix,
    String uri,
    TagLibraryInfoImpl delegate,
    PageInfo pageInfo) {

    super(prefix, uri);

    this.pageInfo = pageInfo;

    this.tagFiles = delegate.getTagFiles();
    this.functions = delegate.getFunctions();
    this.jspversion = delegate.getRequiredVersion();
    this.shortname = delegate.getShortName();
    this.urn = delegate.getReliableURN();
    this.info = delegate.getInfoString();
    this.tagLibraryValidator = delegate.getTagLibraryValidator();

    TagInfo[] otherTags = delegate.getTags();
    if (otherTags != null) {

```

```

    this.tags = new TagInfo[otherTags.length];
    for (int i=0; i<otherTags.length; i++) {
        this.tags[i] = new TagInfo(
            otherTags[i].getTagName(),
            otherTags[i].getTagClassName(),
            otherTags[i].getBodyContent(),
            otherTags[i].getInfoString(),
            this,
            otherTags[i].getTagExtraInfo(),
            otherTags[i].getAttributes(),
            otherTags[i].getDisplayName(),
            otherTags[i].getSmallIcon(),
            otherTags[i].getLargeIcon(),
            otherTags[i].getTagVariableInfos(),
            otherTags[i].hasDynamicAttributes());
    }
}

/**
 * Constructor which builds a TagLibraryInfoImpl by parsing a TLD.
 */
public TagLibraryInfoImpl(JspCompilationContext ctxt,
    ParserController pc,
    String prefix,
    String uriIn,
    String[] location,
    ErrorDispatcher err) throws JasperException {
    super(prefix, uriIn);

    this.ctxt = ctxt;
    this.parserController = pc;
    this.pageInfo = pc.getCompiler().getPageInfo();
    this.err = err;
    InputStream in = null;
    JarFile jarFile = null;

    if (location == null) {
        // The URI points to the TLD itself or to a JAR file in which the
        // TLD is stored
        location = generateTLDLocation(uri, ctxt);
    }

    try {
        if (!location[0].endsWith(".jar")) {
            // Location points to TLD file
            try {

```

```

        in = getResourceAsStream(location[0]);
        if (in == null) {
            throw new FileNotFoundException(location[0]);
        }
    } catch (FileNotFoundException ex) {
        err.jspError("jsp.error.file.not.found", location[0]);
    }
    parseTLD(ctxt, location[0], in, null);
    // Add TLD to dependency list
    PageInfo pageInfo = ctxt.createCompiler(false).getPageInfo();
    if (pageInfo != null) {
        pageInfo.addDependant(location[0]);
    }
} else {
    // Tag library is packaged in JAR file
    try {
        URL jarFileUrl = new URL("jar:" + location[0] + "!/");
        JarURLConnection conn =
(JarURLConnection) jarFileUrl.openConnection();
        conn.setUseCaches(false);
        conn.connect();
        jarFile = conn.getJarFile();
        ZipEntry jarEntry = jarFile.getEntry(location[1]);
        in = jarFile.getInputStream(jarEntry);
        parseTLD(ctxt, location[0], in, jarFileUrl);
    } catch (Exception ex) {
        err.jspError("jsp.error.tld.unable_to_read", location[0],
            location[1], ex.toString());
    }
}
} finally {
    if (in != null) {
        try {
            in.close();
        } catch (Throwable t) {}
    }
    if (jarFile != null) {
        try {
            jarFile.close();
        } catch (Throwable t) {}
    }
}
}

/**
 * Returns an array of TagLibraryInfo objects representing the entire set

```

```

* of tag libraries (including this TagLibraryInfo) imported by taglib
* directives in the translation unit that references this
* TagLibraryInfo.
*
* If a tag library is imported more than once and bound to different
* prefixes, only the TagLibraryInfo bound to the first prefix must be
* included in the returned array.
*
* @return Array of TagLibraryInfo objects representing the entire set
* of tag libraries (including this TagLibraryInfo) imported by taglib
* directives in the translation unit that references this TagLibraryInfo.
*
* @since 2.1
*/
public TagLibraryInfo[] getTagLibraryInfos() {

    TagLibraryInfo[] taglibs = null;

    Collection<TagLibraryInfo> c = pageInfo.getTaglibs();
    if (c != null && c.size() > 0) {
        taglibs = c.toArray(new TagLibraryInfo[0]);
    }

    return taglibs;
}

/*
* @param ctxt The JSP compilation context
* @param uri The TLD's uri
* @param in The TLD's input stream
* @param jarFileUrl The JAR file containing the TLD, or null if the tag
* library is not packaged in a JAR
*/
private void parseTLD(JspCompilationContext ctxt,
String uri, InputStream in, URL jarFileUrl)
throws JasperException
{
    List<TagInfo> tagVector = new ArrayList<TagInfo>();
    List<TagFileInfo> tagFileVector = new ArrayList<TagFileInfo>();
    HashMap<String, FunctionInfo> functionTable =
        new HashMap<String, FunctionInfo>();

    // Create an iterator over the child elements of our <taglib> element
    ParserUtils pu = new ParserUtils();
    TreeNode tld = pu.parseXMLDocument(uri, in);

    // Check to see if the <taglib> root element contains a 'version'

```

```

// attribute, which was added in JSP 2.0 to replace the <jsp-version>
// subelement
this.jspversion = tld.findAttribute("version");

// Process each child element of our <taglib> element
Iterator list = tld.findChildren();

while (list.hasNext()) {
    TreeNode element = (TreeNode) list.next();
    String tname = element.getName();

    if ("tlibversion".equals(tname)           // JSP 1.1
|| "tlib-version".equals(tname)) { // JSP 1.2
        this.tlibversion = element.getBody();
    } else if ("jspversion".equals(tname)
|| "jsp-version".equals(tname)) {
        this.jspversion = element.getBody();
    } else if ("shortname".equals(tname) ||
        "short-name".equals(tname))
        this.shortname = element.getBody();
    else if ("uri".equals(tname))
        this.urn = element.getBody();
    else if ("info".equals(tname) ||
        "description".equals(tname))
        this.info = element.getBody();
    else if ("validator".equals(tname))
        this.tagLibraryValidator = createValidator(element);
    else if ("tag".equals(tname))
        tagVector.add(createTagInfo(element, jspversion));
    else if ("tag-file".equals(tname)) {
        TagFileInfo tagFileInfo = createTagFileInfo(element, uri,
            jarFileUrl);
        tagFileVector.add(tagFileInfo);
    } else if ("function".equals(tname)) { // JSP2.0
        FunctionInfo funcInfo = createFunctionInfo(element);
        String funcName = funcInfo.getName();
        if (functionTable.containsKey(funcName)) {
            err.jspError("jsp.error.tld.fn.duplicate.name",
                funcName, uri);
        }

        functionTable.put(funcName, funcInfo);
    } else if ("display-name".equals(tname) || // Ignored elements
        "small-icon".equals(tname) ||
        "large-icon".equals(tname) ||
        "listener".equals(tname)) {
        ;
    } else if ("taglib-extension".equals(tname)) {

```

```

// Recognized but ignored
    } else {
        err.jspError("jsp.error.unknown.element.in.taglib", tname);
    }
}

if (tlibversion == null) {
    err.jspError("jsp.error.tld.mandatory.element.missing",
        "tlib-version");
}
if (jspversion == null) {
    err.jspError("jsp.error.tld.mandatory.element.missing",
        "jsp-version");
}

this.tags = tagVector.toArray(new TagInfo[0]);
this.tagFiles = tagFileVector.toArray(new TagFileInfo[0]);

this.functions = new FunctionInfo[functionTable.size()];
int i=0;
for (FunctionInfo funcInfo: functionTable.values()) {
    this.functions[i++] = funcInfo;
}
}

/*
 * @param uri The uri of the TLD
 * @param ctxt The compilation context
 *
 * @return String array whose first element denotes the path to the TLD.
 * If the path to the TLD points to a jar file, then the second element
 * denotes the name of the TLD entry in the jar file, which is hardcoded
 * to META-INF/taglib.tld.
 */
private String[] generateTLDLocation(String uri,
    JspCompilationContext ctxt)
    throws JasperException {

int uriType = TldScanner.uriType(uri);
if (uriType == TldScanner.ABS_URI) {
    err.jspError("jsp.error.taglibDirective.absUriCannotBeResolved",
        uri);
} else if (uriType == TldScanner.NOROOT_REL_URI) {
    uri = ctxt.resolveRelativeUri(uri);
}

String[] location = new String[2];
location[0] = uri;

```

```

if (location[0].endsWith(".jar")) {
    URL url = null;
    try {
        url = ctxt.getResource(location[0]);
    } catch (Exception ex) {
        err.jspError("jsp.error.tld.unable_to_get_jar", location[0],
            ex.toString());
    }
    if (url == null) {
        err.jspError("jsp.error.tld.missing_jar", location[0]);
    }
    location[0] = url.toString();
    location[1] = "META-INF/taglib.tld";
}

return location;
}

private TagInfo createTagInfo(TreeNode elem, String jspVersion)
    throws JasperException {
    String tagName = null;
    String tagClassName = null;
    String teiClassName = null;

    /*
     * Default body content for JSP 1.2 tag handlers (<body-content> has
     * become mandatory in JSP 2.0, because the default would be invalid
     * for simple tag handlers)
     */
    String bodycontent = "JSP";

    String info = null;
    String displayName = null;
    String smallIcon = null;
    String largeIcon = null;
    boolean dynamicAttributes = false;

    List<TagAttributeInfo> attributeVector =
        new ArrayList<TagAttributeInfo>();
    List<TagVariableInfo> variableVector = new ArrayList<TagVariableInfo>();
    Iterator<TreeNode> list = elem.findChildren();
    while (list.hasNext()) {
        TreeNode element = list.next();
        String tname = element.getName();

        if ("name".equals(tname)) {
            tagName = element.getBody();
        } else if ("tagclass".equals(tname) ||

```

```

        "tag-class".equals(tname)) {
            tagClassName = element.getBody();
        } else if ("teiclass".equals(tname) ||
            "tei-class".equals(tname)) {
            teiClassName = element.getBody();
        } else if ("bodycontent".equals(tname) ||
            "body-content".equals(tname)) {
            bodycontent = element.getBody();
        } else if ("display-name".equals(tname)) {
            displayName = element.getBody();
        } else if ("small-icon".equals(tname)) {
            smallIcon = element.getBody();
        } else if ("large-icon".equals(tname)) {
            largeIcon = element.getBody();
        } else if ("icon".equals(tname)) {
            TreeNode icon = element.findChild("small-icon");
            if (icon != null) {
                smallIcon = icon.getBody();
            }
            icon = element.findChild("large-icon");
            if (icon != null) {
                largeIcon = icon.getBody();
            }
        } else if ("info".equals(tname) ||
            "description".equals(tname)) {
            info = element.getBody();
        } else if ("variable".equals(tname)) {
            variableVector.add(createVariable(element));
        } else if ("attribute".equals(tname)) {
            attributeVector.add(createAttribute(element, jspVersion));
        } else if ("dynamic-attributes".equals(tname)) {
            dynamicAttributes = JspUtil.booleanValue(element.getBody());
        } else if ("example".equals(tname)) {
            // Ignored elements
        } else if ("tag-extension".equals(tname)) {
            // Ignored
        } else {
            err.jspError("jsp.error.unknown.element.in.tag", tname);
        }
    }
}

```

```

// JSP 2.0 removed the capital versions of TAGDEPENDENT, EMPTY, and
// SCRIPTLESS enumerations in body-contentType, see JSP.E.2 ("Changes
// between JSP 2.0 PFD2 and JSP 2.0 PFD3"), section "Changes to Tag
// Library Descriptor (TLD)". Enforce that from JSP 2.0 and up, only
// "JSP", "tagdependent", "empty", and "scriptless" may be specified
// as body-content values.

```

```

Double jspVersionDouble = Double.valueOf(jspversion);

```



```

if (Double.compare(jspVersionDouble, Constants.JSP_VERSION_2_0) >= 0) {
    if (!bodycontent.equals(TagInfo.BODY_CONTENT_JSP)
        && !bodycontent.equals(TagInfo.BODY_CONTENT_EMPTY)
        && !bodycontent.equals(TagInfo.BODY_CONTENT_TAG_DEPENDENT)
        && !bodycontent.equals(TagInfo.BODY_CONTENT_SCRIPTLESS)) {
        err.jspError("jsp.error.tld.badbodycontent",
            bodycontent, tagName);
    }
}

TagExtraInfo tei = null;
if (teiClassName != null && !teiClassName.equals("")) {
    try {
        Class teiClass = ctxt.getClassLoader().loadClass(teiClassName);
        tei = (TagExtraInfo) teiClass.newInstance();
    } catch (Exception e) {
        err.jspError("jsp.error.teiclass.instantiation", teiClassName,
            e);
    }
}

TagAttributeInfo[] tagAttributeInfo
    = attributeVector.toArray(new TagAttributeInfo[0]);
TagVariableInfo[] tagVariableInfos
    = variableVector.toArray(new TagVariableInfo[0]);

TagInfo taginfo = new TagInfo(tagName,
    tagClassName,
    bodycontent,
    info,
    this,
    tei,
    tagAttributeInfo,
    displayName,
    smallIcon,
    largeIcon,
    tagVariableInfos,
    dynamicAttributes);

return taginfo;
}

/*
 * Parses the tag file directives of the given TagFile and turns them into
 * a TagInfo.
 *
 * @param elem The <tag-file> element in the TLD
 * @param uri The location of the TLD, in case the tag file is specified
 * relative to it

```

```

* @param jarFile The JAR file, in case the tag file is packaged in a JAR
*
* @return TagInfo corresponding to tag file directives
*/
private TagFileInfo createTagFileInfo(TreeNode elem, String uri,
    URL jarFileUrl)
    throws JasperException {

String name = null;
String path = null;
String description = null;
String displayName = null;
String icon = null;
boolean checkConflict = false;

Iterator list = elem.findChildren();
while (list.hasNext()) {
    TreeNode child = (TreeNode) list.next();
    String tname = child.getName();
    if ("name".equals(tname)) {
name = child.getBody();
    } else if ("path".equals(tname)) {
path = child.getBody();
    } else if ("description".equals(tname)) {
        checkConflict = true;
        description = child.getBody();
    } else if ("display-name".equals(tname)) {
        checkConflict = true;
        displayName = child.getBody();
    } else if ("icon".equals(tname)) {
        checkConflict = true;
        icon = child.getBody();
    } else if ("example".equals(tname)) {
        // Ignore <example> element: Bugzilla 33538
    } else if ("tag-extension".equals(tname)) {
        // Ignore <tag-extension> element: Bugzilla 33538
    } else {
        err.jspError("jsp.error.unknown.element.in.tagfile", tname);
    }
}

if (path.startsWith("/META-INF/tags")) {
    // Tag file packaged in JAR
    ctxt.getTagFileJarUrls().put(path, jarFileUrl);
} else if (!path.startsWith("/WEB-INF/tags")) {
    err.jspError("jsp.error.tagfile.illegalPath", path);
}
}

```

```

JasperTagInfo tagInfo = (JasperTagInfo)
    TagFileProcessor.parseTagFileDirectives(parserController, name,
        path, this);
if (checkConflict) {
    String tstring = tagInfo.getInfoString();
    if (tstring != null && !"".equals(tstring)) {
        description = tstring;
    }
    tstring = tagInfo.getDisplayName();
    if (tstring != null && !"".equals(tstring)) {
        displayName = tstring;
    }
    tstring = tagInfo.getSmallIcon();
    if (tstring != null && !"".equals(tstring)) {
        icon = tstring;
    }
    tagInfo = new JasperTagInfo(
        tagInfo.getTagName(),
        tagInfo.getTagClassName(),
        tagInfo.getBodyContent(),
        description,
        tagInfo.getTagLibrary(),
        tagInfo.getTagExtraInfo(),
        tagInfo.getAttributes(),
        displayName,
        icon,
        tagInfo.getLargeIcon(),
        tagInfo.getTagVariableInfos(),
        tagInfo.getDynamicAttributesMapName());
}
return new TagFileInfo(name, path, tagInfo);
}

private TagAttributeInfo createAttribute(TreeNode elem, String jspVersion)
    throws JasperException {

    String name = null;
    String type = null;
    boolean required = false, rtexprvalue = false, reqTime = false,
        isFragment = false;
    boolean deferredValue = false;
    boolean deferredMethod = false;
    String expectedType = "java.lang.Object";
    String methodSignature = "void method()";
    String description = null;

    Iterator list = elem.findChildren();
    while (list.hasNext()) {

```

```

TreeNode element = (TreeNode) list.next();
String tname = element.getName();

if ("name".equals(tname)) {
    name = element.getBody();
} else if ("required".equals(tname)) {
    String s = element.getBody();
    if (s != null)
        required = JspUtil.booleanValue(s);
} else if ("rtexprvalue".equals(tname)) {
    String s = element.getBody();
    if (s != null)
        rtexprvalue = JspUtil.booleanValue(s);
} else if ("type".equals(tname)) {
    type = element.getBody();
    if ("1.2".equals(jspVersion)
        && (type.equals("Boolean")
            || type.equals("Byte")
            || type.equals("Character")
            || type.equals("Double")
            || type.equals("Float")
            || type.equals("Integer")
            || type.equals("Long")
            || type.equals("Object")
            || type.equals("Short")
            || type.equals("String")))) {
        type = "java.lang." + type;
    }
} else if ("fragment".equals(tname)) {
    String s = element.getBody();
    if (s != null) {
        isFragment = JspUtil.booleanValue(s);
    }
} else if ("description".equals(tname)) {
description = element.getBody();
} else if ("deferred-value".equals(tname)) {
    deferredValue = true;
    Iterator iter = element.findChildren();
    if (iter.hasNext()) {
        TreeNode element2 = (TreeNode) iter.next();
        tname = element2.getName();
        if ("type".equals(tname)) {
            String s = element2.getBody();
            if (s != null) {
                expectedType = s;
            }
        } else {
            err.jspError(

```

```

        "jsp.error.unknown.element.in.attribute",
        tname);
    }
}
} else if ("deferred-method".equals(tname)) {
    deferredMethod = true;
    Iterator iter = element.findChildren();
    if (iter.hasNext()) {
        TreeNode element2 = (TreeNode) iter.next();
        tname = element2.getName();
        if ("method-signature".equals(tname)) {
            String s = element2.getBody();
            if (s != null) {
                methodSignature = s;
            }
        } else {
            err.jspError(
                "jsp.error.unknown.element.in.attribute",
                tname);
        }
    }
} else {
    err.jspError("jsp.error.unknown.element.in.attribute",
        tname);
}
}

if (isFragment) {
    /*
     * According to JSP.C-3 ("TLD Schema Element Structure - tag"),
     * 'type' and 'rtexprvalue' must not be specified if 'fragment'
     * has been specified (this will be enforced by validating parser).
     * Also, if 'fragment' is TRUE, 'type' is fixed at
     * javax.servlet.jsp.tagext.JspFragment, and 'rtexprvalue' is
     * fixed at true. See also JSP.8.5.2.
     */
    type = "javax.servlet.jsp.tagext.JspFragment";
    rtexprvalue = true;
}

if (!rtexprvalue) {
    // According to JSP spec, for static values (those determined at
    // translation time) the type is fixed at java.lang.String.
    type = "java.lang.String";
}

return new TagAttributeInfo(name, required, type, rtexprvalue,
    isFragment, description, deferredValue,

```

```

        deferredMethod, expectedType,
        methodSignature);
    }

    private TagVariableInfo createVariable(TreeNode elem)
        throws JasperException {

        String nameGiven = null;
        String nameFromAttribute = null;
        String className = "java.lang.String";
        boolean declare = true;
        int scope = VariableInfo.NESTED;

        Iterator list = elem.findChildren();
        while (list.hasNext()) {
            TreeNode element = (TreeNode) list.next();
            String tname = element.getName();
            if ("name-given".equals(tname))
                nameGiven = element.getBody();
            else if ("name-from-attribute".equals(tname))
                nameFromAttribute = element.getBody();
            else if ("variable-class".equals(tname))
                className = element.getBody();
            else if ("declare".equals(tname)) {
                String s = element.getBody();
                if (s != null)
                    declare = JspUtil.booleanValue(s);
            } else if ("scope".equals(tname)) {
                String s = element.getBody();
                if (s != null) {
                    if ("NESTED".equals(s)) {
                        scope = VariableInfo.NESTED;
                    } else if ("AT_BEGIN".equals(s)) {
                        scope = VariableInfo.AT_BEGIN;
                    } else if ("AT_END".equals(s)) {
                        scope = VariableInfo.AT_END;
                    }
                }
            }
            } else if ("description".equals(tname) || // Ignored elements
                false ) {
                } else {
                    err.jspError("jsp.error.unknown.element.in.variable",
                        tname);
                }
            }
        return new TagVariableInfo(nameGiven, nameFromAttribute,
            className, declare, scope);
    }
}

```

```

private TagLibraryValidator createValidator(TreeNode elem)
    throws JasperException {

    String validatorClass = null;
Map<String, Object> initParams = new HashMap<String, Object>();

    Iterator list = elem.findChildren();
    while (list.hasNext()) {
        TreeNode element = (TreeNode) list.next();
        String tname = element.getName();
        if ("validator-class".equals(tname))
            validatorClass = element.getBody();
        else if ("init-param".equals(tname)) {
String[] initParam = createInitParam(element);
initParams.put(initParam[0], initParam[1]);
        } else if ("description".equals(tname) || // Ignored elements
false ) {
        } else {
            err.jspError("jsp.error.unknown.element.in.validator",
                tname);
        }
    }

    TagLibraryValidator tlv = null;
    if (validatorClass != null && !validatorClass.equals("")) {
        try {
            Class tlvClass =
                ctxt.getClassLoader().loadClass(validatorClass);
            tlv = (TagLibraryValidator)tlvClass.newInstance();
        } catch (Exception e) {
            err.jspError("jsp.error.tlvclass.instantiation",
                validatorClass, e);
        }
    }
    if (tlv != null) {
        tlv.setInitParameters(initParams);
    }
    return tlv;
}

private String[] createInitParam(TreeNode elem) throws JasperException {

    String[] initParam = new String[2];

    Iterator list = elem.findChildren();
    while (list.hasNext()) {
        TreeNode element = (TreeNode) list.next();

```

```

String tname = element.getName();
if ("param-name".equals(tname)) {
    initParam[0] = element.getBody();
} else if ("param-value".equals(tname)) {
    initParam[1] = element.getBody();
} else if ("description".equals(tname)) {
    ; // Do nothing
} else {
    err.jspError("jsp.error.unknown.element.in.initParam",
                tname);
}
}
return initParam;
}

private FunctionInfo createFunctionInfo(TreeNode elem)
    throws JasperException {

    String name = null;
    String klass = null;
    String signature = null;

    Iterator list = elem.findChildren();
    while (list.hasNext()) {
        TreeNode element = (TreeNode) list.next();
        String tname = element.getName();

        if ("name".equals(tname)) {
            name = element.getBody();
        } else if ("function-class".equals(tname)) {
            klass = element.getBody();
        } else if ("function-signature".equals(tname)) {
            signature = element.getBody();
        } else if ("display-name".equals(tname) || // Ignored elements
                "small-icon".equals(tname) ||
                "large-icon".equals(tname) ||
                "description".equals(tname) ||
                "example".equals(tname)) {
        } else {
            err.jspError("jsp.error.unknown.element.in.function",
                        tname);
        }
    }

    return new FunctionInfo(name, klass, signature);
}

```



```

//*****
// Until javax.servlet.jsp.tagext.TagLibraryInfo is fixed

/**
 * The instance (if any) for the TagLibraryValidator class.
 *
 * @return The TagLibraryValidator instance, if any.
 */
public TagLibraryValidator getTagLibraryValidator() {
return tagLibraryValidator;
}

/**
 * Translation-time validation of the XML document
 * associated with the JSP page.
 * This is a convenience method on the associated
 * TagLibraryValidator class.
 *
 * @param thePage The JSP page object
 * @return A string indicating whether the page is valid or not.
 */
public ValidationMessage[] validate(PageData thePage) {
TagLibraryValidator tlv = getTagLibraryValidator();
if (tlv == null) return null;

    String uri = getURI();
    if (uri.startsWith("/")) {
        uri = URN_JSPTLD + uri;
    }

    ValidationMessage[] messages = tlv.validate(getPrefixString(), uri,
                                                thePage);

    tlv.release();

    return messages;
}

protected TagLibraryValidator tagLibraryValidator;
}
/**
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*/

```

package org.apache.jasper.compiler.tagplugin;

/**
 * This interface is to be implemented by the plugin author, to supply
 * an alternate implementation of the tag handlers. It can be used to
 * specify the Java codes to be generated when a tag is invoked.
 *
 * An implementation of this interface must be registered in a file
 * named "tagPlugins.xml" under WEB-INF.
 */

public interface TagPlugin {

    /**
     * Generate codes for a custom tag.
     * @param ctxt a TagPluginContext for accessing Jasper functions
     */
    void doTag(TagPluginContext ctxt);
}

/*
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*/

```

```
package org.apache.jasper.compiler.tagplugin;
```

```
import org.apache.jasper.compiler.ServletWriter;
```

```
/**
```

```

* This interface allows the plugin author to make inquiries about the
* properties of the current tag, and to use Jasper resources to generate
* direct Java codes in place of tag handler invocations.
*/

```

```
public interface TagPluginContext {
```

```
/**
```

```

* @return true if the body of the tag is scriptless.
*/

```

```
*/
```

```
boolean isScriptless();
```

```
/**
```

```

* @param attribute Name of the attribute

```

```

* @return true if the attribute is specified in the tag
*/
boolean isAttributeSpecified(String attribute);

/**
* @return An unique temporary variable name that the plugin can use.
*/
String getTemporaryVariableName();

/**
* Generate an import statement
* @param s Name of the import class, '*' allowed.
*/
void generateImport(String s);

/**
* Generate a declaration in the of the generated class. This can be
* used to declare an inner class, a method, or a class variable.
* @param id An unique ID identifying the declaration. It is not
* part of the declaration, and is used to ensure that the
* declaration will only appear once. If this method is
* invoked with the same id more than once in the translation
* unit, only the first declaration will be taken.
* @param text The text of the declaration.
**/
void generateDeclaration(String id, String text);

/**
* Generate Java source codes
*/
void generateJavaSource(String s);

/**
* @return true if the attribute is specified and its value is a
* translation-time constant.
*/
boolean isConstantAttribute(String attribute);

/**
* @return A string that is the value of a constant attribute. Undefined
* if the attribute is not a (translation-time) constant.
* null if the attribute is not specified.
*/
String getConstantAttribute(String attribute);

/**
* Generate code to evaluate value of a attribute in the custom tag
* The code is a Java expression.

```

```

* NOTE: Currently cannot handle attributes that are fragments.
* @param attribute The specified attribute
*/
void generateAttribute(String attribute);

/*
* Generate codes for the body of the custom tag
*/
void generateBody();

/**
* Abandon optimization for this tag handler, and instruct
* Jasper to generate the tag handler calls, as usual.
* Should be invoked if errors are detected, or when the tag body
* is deemed too complicated for optimization.
*/
void dontUseTagPlugin();

/**
* Get the PluginContext for the parent of this custom tag. NOTE:
* The operations available for PluginContext so obtained is limited
* to getPluginAttribute and setPluginAttribute, and queries (e.g.
* isScriptless()). There should be no calls to generate*().
* @return The pluginContext for the parent node.
*     null if the parent is not a custom tag, or if the pluginConxt
*     if not available (because useTagPlugin is false, e.g).
*/
TagPluginContext getParentContext();

/**
* Associate the attribute with a value in the current tagplugin context.
* The plugin attributes can be used for communication among tags that
* must work together as a group. See <c:when> for an example.
*/
void setPluginAttribute(String attr, Object value);

/**
* Get the value of an attribute in the current tagplugin context.
*/
Object getPluginAttribute(String attr);
}
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```

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*/

package org.apache.jasper.compiler;

import java.io.InputStream;
import java.io.ByteArrayInputStream;
import java.io.CharArrayWriter;
import java.io.UnsupportedEncodingException;
import java.util.ListIterator;
import javax.servlet.jsp.tagext.PageData;
import org.xml.sax.Attributes;
import org.xml.sax.helpers.AttributesImpl;
import org.apache.jasper.JasperException;

/**
 * An implementation of <tt>javax.servlet.jsp.tagext.PageData</tt> which
 * builds the XML view of a given page.
 *
 * The XML view is built in two passes:
 *
 * During the first pass, the FirstPassVisitor collects the attributes of the
 * top-level jsp:root and those of the jsp:root elements of any included
 * pages, and adds them to the jsp:root element of the XML view.
 * In addition, any taglib directives are converted into xmlns: attributes and
 * added to the jsp:root element of the XML view.
 * This pass ignores any nodes other than JspRoot and TaglibDirective.
 *
 * During the second pass, the SecondPassVisitor produces the XML view, using
 * the combined jsp:root attributes determined in the first pass and any
 * remaining pages nodes (this pass ignores any JspRoot and TaglibDirective
 * nodes).
 *
 * @author Jan Luehe
 */
class PageDataImpl extends PageData implements TagConstants {

    private static final String JSP_VERSION = "2.0";
    private static final String CDATA_START_SECTION = "<![CDATA[\n";
    private static final String CDATA_END_SECTION = "]]>\n";

    // string buffer used to build XML view
    private StringBuilder buf;

    /**
     * Constructor.
     *
     * @param page the page nodes from which to generate the XML view

```



```

*/
public PageDataImpl(Node.Nodes page, Compiler compiler)
    throws JasperException {

// First pass
FirstPassVisitor firstPass = new FirstPassVisitor(
    page.getRoot(),
    compiler.getPageInfo(),
    compiler.getErrorDispatcher());
page.visit(firstPass);

// Second pass
buf = new StringBuilder();
SecondPassVisitor secondPass
    = new SecondPassVisitor(page.getRoot(), buf, compiler,
        firstPass.getJspIdPrefix());
page.visit(secondPass);
}

/**
 * Returns the input stream of the XML view.
 *
 * @return the input stream of the XML view
 */
public InputStream getInputStream() {
// Turn StringBuilder into InputStream
try {
    return new ByteArrayInputStream(buf.toString().getBytes("UTF-8"));
} catch (UnsupportedEncodingException uee) {
// should never happen
    throw new RuntimeException(uee.toString());
}
}

/**
 * First-pass Visitor for JspRoot nodes (representing jsp:root elements)
 * and TaglibDirective nodes, ignoring any other nodes.
 *
 * The purpose of this Visitor is to collect the attributes of the
 * top-level jsp:root and those of the jsp:root elements of any included
 * pages, and add them to the jsp:root element of the XML view.
 * In addition, this Visitor converts any taglib directives into xmlns:
 * attributes and adds them to the jsp:root element of the XML view.
 */
static class FirstPassVisitor
    extends Node.Visitor implements TagConstants {

private Node.Root root;

```

```

private AttributesImpl rootAttrs;
private PageInfo pageInfo;

// Prefix for the 'id' attribute
private String jspIdPrefix;

    private ErrorDispatcher err;

/*
 * Constructor
 */
public FirstPassVisitor(Node.Root root, PageInfo pageInfo,
                        ErrorDispatcher err) {
    this.root = root;
    this.pageInfo = pageInfo;
    this.err = err;
    this.rootAttrs = new AttributesImpl();
    this.rootAttrs.addAttribute("", "", "version", "CDATA",
    JSP_VERSION);
    this.jspIdPrefix = "jsp";
}

public void visit(Node.Root n) throws JasperException {
    visitBody(n);
    if (n == root) {
/*
 * Top-level page.
 *
 * Add
 * xmlns:jsp="http://java.sun.com/JSP/Page"
 * attribute only if not already present.
 */
if (!JSP_URI.equals(rootAttrs.getValue("xmlns:jsp"))) {
    rootAttrs.addAttribute("", "", "xmlns:jsp", "CDATA",
    JSP_URI);
}

if (pageInfo.isJspPrefixHijacked()) {
/*
 * 'jsp' prefix has been hijacked, that is, bound to a
 * namespace other than the JSP namespace. This means that
 * when adding an 'id' attribute to each element, we can't
 * use the 'jsp' prefix. Therefore, create a new prefix
 * (one that is unique across the translation unit) for use
 * by the 'id' attribute, and bind it to the JSP namespace
 */
jspIdPrefix += "jsp";
while (pageInfo.containsPrefix(jspIdPrefix)) {

```

```

jspIdPrefix += "jsp";
    }
    rootAttrs.addAttribute("", "", "xmlns:" + jspIdPrefix,
        "CDATA", JSP_URI);
}

root.setAttributes(rootAttrs);
}
}

public void visit(Node.JspRoot n) throws JasperException {
    addRootAttributes(n.getTaglibAttributes());
    addRootAttributes(n.getNonTaglibXmlnsAttributes());
    addRootAttributes(n.getAttributes());

    visitBody(n);
}

/*
 * Converts taglib directive into "xmlns:..." attribute of jsp:root
 * element.
 */
public void visit(Node.TaglibDirective n) throws JasperException {
    Attributes attrs = n.getAttributes();
    if (attrs != null) {
        String qName = "xmlns:" + attrs.getValue("prefix");
        /*
         * According to javadocs of org.xml.sax.helpers.AttributesImpl,
         * the addAttribute method does not check to see if the
         * specified attribute is already contained in the list: This
         * is the application's responsibility!
         */
        if (rootAttrs.getIndex(qName) == -1) {
            String location = attrs.getValue("uri");
            if (location != null) {
                if (location.startsWith("/")) {
                    location = URN_JSPTLD + location;
                }
            }
            rootAttrs.addAttribute("", "", qName, "CDATA",
                location);
        } else {
            location = attrs.getValue("tagdir");
            rootAttrs.addAttribute("", "", qName, "CDATA",
                URN_JSPTAGDIR + location);
        }
    }
}
}
}

```

```

public String getJspIdPrefix() {
    return jspIdPrefix;
}

private void addRootAttributes(Attributes attrs)
    throws JasperException {
    if (attrs != null) {
        int len = attrs.getLength();
        for (int i=0; i<len; i++) {
            if ("version".equals(attrs.getQName(i))) {
                continue;
            }

            String qname = attrs.getQName(i);
            String value = attrs.getValue(i);
            int index = rootAttrs.getIndex(qname);
            if (index == -1) {
                rootAttrs.addAttribute(attrs.getURI(i),
                    attrs.getLocalName(i),
                    qname,
                    attrs.getType(i),
                    value);
            } else {
                String rootValue = rootAttrs.getValue(index);
                if (rootValue != null && !rootValue.equals(value)) {
                    err.jspError(
                        "jsp.error.xmlview.attribute.redefined",
                        qname, rootValue, value);
                }
            }
        }
    }
}

/*
 * Second-pass Visitor responsible for producing XML view and assigning
 * each element a unique jsp:id attribute.
 */
static class SecondPassVisitor extends Node.Visitor
    implements TagConstants {

    private Node.Root root;
    private StringBuilder buf;
    private Compiler compiler;
    private String jspIdPrefix;
    private boolean resetDefaultNS = false;

```

```

// Current value of jsp:id attribute
private int jspId;

/*
 * Constructor
 */
public SecondPassVisitor(Node.Root root, StringBuilder buf,
    Compiler compiler, String jspIdPrefix) {
    this.root = root;
    this.buf = buf;
    this.compiler = compiler;
    this.jspIdPrefix = jspIdPrefix;
}

/*
 * Visits root node.
 */
public void visit(Node.Root n) throws JasperException {
    if (n == this.root) {
        // top-level page
        appendXmlProlog();
        appendTag(n);
    } else {
        boolean resetDefaultNSSave = resetDefaultNS;
        if (n.isXmlSyntax()) {
            resetDefaultNS = true;
        }
        visitBody(n);
        resetDefaultNS = resetDefaultNSSave;
    }
}

/*
 * Visits jsp:root element of JSP page in XML syntax.
 *
 * Any nested jsp:root elements (from pages included via an
 * include directive) are ignored.
 */
public void visit(Node.JspRoot n) throws JasperException {
    visitBody(n);
}

public void visit(Node.PageDirective n) throws JasperException {
    appendPageDirective(n);
}

public void visit(Node.IncludeDirective n) throws JasperException {

```

```

    // expand in place
    visitBody(n);
}

public void visit(Node.Comment n) throws JasperException {
    // Comments are ignored in XML view
}

public void visit(Node.Declaration n) throws JasperException {
    appendTag(n);
}

public void visit(Node.Expression n) throws JasperException {
    appendTag(n);
}

public void visit(Node.Scriptlet n) throws JasperException {
    appendTag(n);
}

public void visit(Node.JspElement n) throws JasperException {
    appendTag(n);
}

public void visit(Node.ELExpression n) throws JasperException {
    if (!n.getRoot().isXmlSyntax()) {
        buf.append("<").append(JSP_TEXT_ACTION);
        buf.append(" ");
        buf.append(jspIdPrefix);
        buf.append(":id=\"");
        buf.append(jspId++).append("\>");
    }
    buf.append("${");
    buf.append(JspUtil.escapeXml(n.getText()));
    buf.append("}");
    if (!n.getRoot().isXmlSyntax()) {
        buf.append(JSP_TEXT_ACTION_END);
    }
    buf.append("\n");
}

public void visit(Node.IncludeAction n) throws JasperException {
    appendTag(n);
}

public void visit(Node.ForwardAction n) throws JasperException {
    appendTag(n);
}

```

```

public void visit(Node.GetProperty n) throws JasperException {
    appendTag(n);
}

public void visit(Node.SetProperty n) throws JasperException {
    appendTag(n);
}

public void visit(Node.ParamAction n) throws JasperException {
    appendTag(n);
}

public void visit(Node.ParamsAction n) throws JasperException {
    appendTag(n);
}

public void visit(Node.FallBackAction n) throws JasperException {
    appendTag(n);
}

public void visit(Node.UseBean n) throws JasperException {
    appendTag(n);
}

public void visit(Node.PlugIn n) throws JasperException {
    appendTag(n);
}

    public void visit(Node.NamedAttribute n) throws JasperException {
        appendTag(n);
    }

    public void visit(Node.JspBody n) throws JasperException {
        appendTag(n);
    }

public void visit(Node.CustomTag n) throws JasperException {
    n.setJspId(jspId);
    boolean resetDefaultNSSave = resetDefaultNS;
    appendTag(n, resetDefaultNS);
    resetDefaultNS = resetDefaultNSSave;
}

public void visit(Node.UninterpretedTag n) throws JasperException {
    boolean resetDefaultNSSave = resetDefaultNS;
    appendTag(n, resetDefaultNS);
    resetDefaultNS = resetDefaultNSSave;
}

```

```

}

public void visit(Node.JspText n) throws JasperException {
    appendTag(n);
}

public void visit(Node.DoBodyAction n) throws JasperException {
    appendTag(n);
}

    public void visit(Node.InvokeAction n) throws JasperException {
        appendTag(n);
    }

public void visit(Node.TagDirective n) throws JasperException {
    appendTagDirective(n);
}

public void visit(Node.AttributeDirective n) throws JasperException {
    appendTag(n);
}

public void visit(Node.VariableDirective n) throws JasperException {
    appendTag(n);
}

public void visit(Node.TemplateText n) throws JasperException {
    /*
     * If the template text came from a JSP page written in JSP syntax,
     * create a jsp:text element for it (JSP 5.3.2).
     */
    appendText(n.getText(), !n.getRoot().isXmlSyntax());
}

/*
 * Appends the given tag, including its body, to the XML view.
 */
private void appendTag(Node n) throws JasperException {
    appendTag(n, false);
}

/*
 * Appends the given tag, including its body, to the XML view,
 * and optionally reset default namespace to "", if none specified.
 */
private void appendTag(Node n, boolean addDefaultNS)
    throws JasperException {

```



```

Node.Nodes body = n.getBody();
String text = n.getText();

buf.append("<").append(n.getQName());
buf.append("\n");

printAttributes(n, addDefaultNS);
buf.append(" ").append(jspIdPrefix).append(":id").append("=\");
buf.append(jspId++).append("\n");

if (ROOT_ACTION.equals(n.getLocalName()) || body != null
    || text != null) {
buf.append(">\n");
if (ROOT_ACTION.equals(n.getLocalName())) {
    if (compiler.getCompilationContext().isTagFile()) {
appendTagDirective();
    } else {
appendPageDirective();
    }
}
if (body != null) {
    body.visit(this);
} else {
    appendText(text, false);
}
buf.append("</" + n.getQName() + ">\n");
} else {
buf.append(">\n");
}
}

/*
 * Appends the page directive with the given attributes to the XML
 * view.
 *
 * Since the import attribute of the page directive is the only page
 * attribute that is allowed to appear multiple times within the same
 * document, and since XML allows only single-value attributes,
 * the values of multiple import attributes must be combined into one,
 * separated by comma.
 *
 * If the given page directive contains just 'contentType' and/or
 * 'pageEncoding' attributes, we ignore it, as we've already appended
 * a page directive containing just these two attributes.
 */
private void appendPageDirective(Node.PageDirective n) {
    boolean append = false;
    Attributes attrs = n.getAttributes();

```

```

    int len = (attrs == null) ? 0 : attrs.getLength();
    for (int i=0; i<len; i++) {
String attrName = attrs.getQName(i);
if (!"pageEncoding".equals(attrName)
    && !"contentType".equals(attrName)) {
    append = true;
    break;
}
}
if (!append) {
return;
}

buf.append("<").append(n.getQName());
buf.append("\n");

// append jsp:id
buf.append(" ").append(jspIdPrefix).append(":id").append("=\");
buf.append(jspId++).append("\n");

// append remaining attributes
for (int i=0; i<len; i++) {
String attrName = attrs.getQName(i);
if ("import".equals(attrName) || "contentType".equals(attrName)
    || "pageEncoding".equals(attrName)) {
    /*
     * Page directive's 'import' attribute is considered
     * further down, and its 'pageEncoding' and 'contentType'
     * attributes are ignored, since we've already appended
     * a new page directive containing just these two
     * attributes
     */
    continue;
}
String value = attrs.getValue(i);
buf.append(" ").append(attrName).append("=\");
buf.append(JspUtil.getExprInXml(value)).append("\n");
}
if (n.getImports().size() > 0) {
// Concatenate names of imported classes/packages
boolean first = true;
ListIterator iter = n.getImports().listIterator();
while (iter.hasNext()) {
    if (first) {
first = false;
buf.append(" import=\");
    } else {
buf.append(",");
}
}
}

```

```

    }
    buf.append(JspUtil.getExprInXml((String) iter.next()));
}
buf.append("\n");
}
buf.append(">\n");
}

/*
 * Appends a page directive with 'pageEncoding' and 'contentType'
 * attributes.
 *
 * The value of the 'pageEncoding' attribute is hard-coded
 * to UTF-8, whereas the value of the 'contentType' attribute, which
 * is identical to what the container will pass to
 * ServletResponse.setContentType(), is derived from the pageInfo.
 */
private void appendPageDirective() {
    buf.append("<").append(JSP_PAGE_DIRECTIVE_ACTION);
    buf.append("\n");

    // append jsp:id
    buf.append(" ").append(jspIdPrefix).append(":id").append("=");
    buf.append(jspId++).append("\n");
    buf.append(" ").append("pageEncoding").append("=");
    buf.append("UTF-8\n");
    buf.append(" ").append("contentType").append("=");
    buf.append(compiler.getPageInfo().getContentType()).append("\n");
    buf.append(">\n");
}

/*
 * Appends the tag directive with the given attributes to the XML
 * view.
 *
 * If the given tag directive contains just a 'pageEncoding'
 * attributes, we ignore it, as we've already appended
 * a tag directive containing just this attributes.
 */
private void appendTagDirective(Node.TagDirective n)
    throws JasperException {
    boolean append = false;
    Attributes attrs = n.getAttributes();
    int len = (attrs == null) ? 0 : attrs.getLength();
    for (int i=0; i<len; i++) {
        String attrName = attrs.getQName(i);
        if (!"pageEncoding".equals(attrName)) {
            append = true;
        }
    }
}

```

```

        break;
    }
}
if (!append) {
return;
}

appendTag(n);
}

/*
 * Appends a tag directive containing a single 'pageEncoding'
 * attribute whose value is hard-coded to UTF-8.
 */
private void appendTagDirective() {
    buf.append("<").append(JSP_TAG_DIRECTIVE_ACTION);
    buf.append("\n");

    // append jsp:id
    buf.append(" ").append(jspIdPrefix).append(":id").append("=\");
    buf.append(jspId++).append("\n");
    buf.append(" ").append("pageEncoding").append("=\ UTF-8\n");
    buf.append("/>\n");
}

private void appendText(String text, boolean createJspTextElement) {
    if (createJspTextElement) {
        buf.append("<").append(JSP_TEXT_ACTION);
        buf.append("\n");

        // append jsp:id
        buf.append(" ").append(jspIdPrefix).append(":id").append("=\");
        buf.append(jspId++).append("\n");
        buf.append(">\n");

        appendCDATA(text);
        buf.append(JSP_TEXT_ACTION_END);
        buf.append("\n");
    } else {
        appendCDATA(text);
    }
}

/*
 * Appends the given text as a CDATA section to the XML view, unless
 * the text has already been marked as CDATA.
 */
private void appendCDATA(String text) {

```

```

    buf.append(CDATA_START_SECTION);
    buf.append(escapeCDATA(text));
    buf.append(CDATA_END_SECTION);
}

/*
 * Escapes any occurrences of "]]>" (by replacing them with "]]&gt;")
 * within the given text, so it can be included in a CDATA section.
 */
private String escapeCDATA(String text) {
    if( text==null ) return "";
    int len = text.length();
    CharArrayWriter result = new CharArrayWriter(len);
    for (int i=0; i<len; i++) {
        if (((i+2) < len)
            && (text.charAt(i) == ']')
            && (text.charAt(i+1) == ']')
            && (text.charAt(i+2) == '>')) {
            // match found
            result.write(']');
            result.write(']');
            result.write('&');
            result.write('g');
            result.write('t');
            result.write(';');
            i += 2;
        } else {
            result.write(text.charAt(i));
        }
    }
    return result.toString();
}

/*
 * Appends the attributes of the given Node to the XML view.
 */
private void printAttributes(Node n, boolean addDefaultNS) {

    /*
     * Append "xmlns" attributes that represent tag libraries
     */
    Attributes attrs = n.getTaglibAttributes();
    int len = (attrs == null) ? 0 : attrs.getLength();
    for (int i=0; i<len; i++) {
        String name = attrs.getQName(i);
        String value = attrs.getValue(i);
        buf.append(" ").append(name).append("=").append(value).append("\n");
    }
}

```

```

/*
 * Append "xmlns" attributes that do not represent tag libraries
 */
attrs = n.getNonTaglibXmlnsAttributes();
len = (attrs == null) ? 0 : attrs.getLength();
boolean defaultNSSeen = false;
for (int i=0; i<len; i++) {
String name = attrs.getQName(i);
String value = attrs.getValue(i);
buf.append(" ").append(name).append("=").append(value).append("\n");
defaultNSSeen |= "xmlns".equals(name);
}
if (addDefaultNS && !defaultNSSeen) {
buf.append(" xmlns=\"\");
}
resetDefaultNS = false;

/*
 * Append all other attributes
 */
attrs = n.getAttributes();
len = (attrs == null) ? 0 : attrs.getLength();
for (int i=0; i<len; i++) {
String name = attrs.getQName(i);
String value = attrs.getValue(i);
buf.append(" ").append(name).append("=");
buf.append(JspUtil.getExprInXml(value)).append("\n");
}
}

/*
 * Appends XML prolog with encoding declaration.
 */
private void appendXmlProlog() {
    buf.append("<?xml version=\"1.0\" encoding=\"UTF-8\" ?>\n");
}
}
}
/*
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*/

```

package org.apache.jasper.compiler;

import java.io.InputStream;
import java.net.URL;
import java.util.*;
import javax.servlet.ServletContext;
import javax.servlet.jsp.tagext.FunctionInfo;
import javax.servlet.jsp.tagext.TagLibraryInfo;
import javax.servlet.jsp.tagext.TagInfo;
import javax.servlet.jsp.tagext.TagFileInfo;
import org.apache.jasper.Constants;
import org.apache.jasper.JspCompilationContext;
import org.apache.jasper.JasperException;
import org.apache.jasper.xmlparser.ParserUtils;
import org.apache.jasper.xmlparser.TreeNode;

/**
 * Class responsible for generating an implicit tag library containing tag
 * handlers corresponding to the tag files in "/WEB-INF/tags/" or a
 * subdirectory of it.
 *
 * @author Jan Luehe
 */
class ImplicitTagLibraryInfo extends TagLibraryInfo {

    private static final String WEB_INF_TAGS = "/WEB-INF/tags";
    private static final String TAG_FILE_SUFFIX = ".tag";
    private static final String TAGX_FILE_SUFFIX = ".tagx";
    private static final String TAGS_SHORTNAME = "tags";
    private static final String TLIB_VERSION = "1.0";
    private static final String JSP_VERSION = "2.0";
    private static final String IMPLICIT_TLD = "implicit.tld";

    // Maps tag names to tag file paths
    private HashMap<String, String> tagFileMap;

    private ParserController pc;
    private PageInfo pageInfo;
    private ArrayList<TagFileInfo> vec;
    private ErrorDispatcher err;

    /**
     * Constructor.
     */
    public ImplicitTagLibraryInfo(JspCompilationContext ctxt,
        ParserController pc,
        String prefix,

```



```

String tagdir,
ErrorDispatcher err) throws JasperException {
    super(prefix, null);
this.pc = pc;
    this.err = err;
    this.pageInfo = pc.getCompiler().getPageInfo();
this.tagFileMap = new HashMap<String, String>();
this.vec = new ArrayList<TagFileInfo>();

    // Implicit tag libraries have no functions:
    this.functions = new FunctionInfo[0];

tlibversion = TLIB_VERSION;
jspversion = JSP_VERSION;

if (!tagdir.startsWith(WEB_INF_TAGS)) {
    err.jspError("jsp.error.invalid.tagdir", tagdir);
}

// Determine the value of the <short-name> subelement of the
// "imaginary" <taglib> element
if (tagdir.equals(WEB_INF_TAGS)
    || tagdir.equals( WEB_INF_TAGS + "/")) {
    shortname = TAGS_SHORTNAME;
} else {
    shortname = tagdir.substring(WEB_INF_TAGS.length());
    shortname = shortname.replace('/', '-');
}

// Populate mapping of tag names to tag file paths
Set<String> dirList = ctxt.getResourcePaths(tagdir);
if (dirList != null) {
    Iterator it = dirList.iterator();
    while (it.hasNext()) {
        String path = (String) it.next();
        if (path.endsWith(TAG_FILE_SUFFIX)
            || path.endsWith(TAGX_FILE_SUFFIX)) {
            /*
             * Use the filename of the tag file, without the .tag or
             * .tagx extension, respectively, as the <name> subelement
             * of the "imaginary" <tag-file> element
             */
            String suffix = path.endsWith(TAG_FILE_SUFFIX) ?
TAG_FILE_SUFFIX : TAGX_FILE_SUFFIX;
            String tagName = path.substring(path.lastIndexOf("/") + 1);
            tagName = tagName.substring(0,
tagName.lastIndexOf(suffix));
            tagFileMap.put(tagName, path);

```

```

    } else if (path.endsWith(IMPLICIT_TLD)) {
        String tldName = path.substring(path.lastIndexOf("/") + 1);
        if (IMPLICIT_TLD.equals(tldName)) {
            parseImplicitTld(ctxt, path);
        }
    }
}
}
}
}

```

/**

* Returns an array of TagLibraryInfo objects representing the entire set
 * of tag libraries (including this TagLibraryInfo) imported by taglib
 * directives in the translation unit that references this
 * TagLibraryInfo.

*

* If a tag library is imported more than once and bound to different
 * prefixes, only the TagLibraryInfo bound to the first prefix must be
 * included in the returned array.

*

* @return Array of TagLibraryInfo objects representing the entire set
 * of tag libraries (including this TagLibraryInfo) imported by taglib
 * directives in the translation unit that references this TagLibraryInfo.

*

* @since 2.1

*/

```
public TagLibraryInfo[] getTagLibraryInfos() {
```

```
    TagLibraryInfo[] taglibs = null;
```

```
    Collection c = pageInfo.getTaglibs();
```

```
    if (c != null) {
```

```
        Object[] objs = c.toArray();
```

```
        if (objs != null && objs.length > 0) {
```

```
            taglibs = new TagLibraryInfo[objs.length];
```

```
            for (int i=0; i<objs.length; i++) {
```

```
                taglibs[i] = (TagLibraryInfo) objs[i];
```

```
            }
```

```
        }
```

```
    }
```

```
    return taglibs;
```

```
}
```

/**

* Checks to see if the given tag name maps to a tag file path,

```

* and if so, parses the corresponding tag file.
*
* @return The TagFileInfo corresponding to the given tag name, or null if
* the given tag name is not implemented as a tag file
*/
public TagFileInfo getTagFile(String shortName) {

TagFileInfo tagFile = super.getTagFile(shortName);
if (tagFile == null) {
    String path = tagFileMap.get(shortName);
    if (path == null) {
return null;
    }

    TagInfo tagInfo = null;
    try {
tagInfo = TagFileProcessor.parseTagFileDirectives(pc,
        shortName,
        path,
        this);
    } catch (JasperException je) {
throw new RuntimeException(je.toString());
    }

    tagFile = new TagFileInfo(shortName, path, tagInfo);
    vec.add(tagFile);

        this.tagFiles = vec.toArray(new TagFileInfo[vec.size()]);
}

return tagFile;
}

/**
* Parses the JSP version and tlib-version from the implicit.tld at the
* given path.
*/
private void parseImplicitTld(JspCompilationContext ctxt, String path)
    throws JasperException {

    InputStream is = null;
    TreeNode tld = null;

    try {
        URL uri = ctxt.getResource(path);
        if (uri == null) {
            // no implicit.tld

```

```

        return;
    }

    is = uri.openStream();
    /* SJSAS 6384538
    tld = new ParserUtils().parseXMLDocument(IMPLICIT_TLD, is);
    */
    // START SJSAS 6384538
    tld = new ParserUtils().parseXMLDocument(
        IMPLICIT_TLD, is, ctxt.getOptions().isValidationEnabled());
    // END SJSAS 6384538
} catch (Exception ex) {
    throw new JasperException(ex);
} finally {
    if (is != null) {
        try {
            is.close();
        } catch (Throwable t) {}
    }
}

this.jspversion = tld.findAttribute("version");

Iterator list = tld.findChildren();
while (list.hasNext()) {
    TreeNode element = (TreeNode) list.next();
    String tname = element.getName();
    if ("tlibversion".equals(tname)
        || "tlib-version".equals(tname)) {
        this.tlibversion = element.getBody();
    } else if ("jspversion".equals(tname)
        || "jsp-version".equals(tname)) {
        this.jspversion = element.getBody();
    } else if (!"shortname".equals(tname)
        && !"short-name".equals(tname)) {
        err.jspError("jsp.error.implicitTld.additionalElements",
            path, tname);
    }
}

// JSP version in implicit.tld must be 2.0 or greater
Double jspVersionDouble = Double.valueOf(this.jspversion);
if (Double.compare(jspVersionDouble, Constants.JSP_VERSION_2_0) < 0) {
    err.jspError("jsp.error.implicitTld.jspVersion", path,
        this.jspversion);
}
}
}

```

```

}
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*/

```

```

package org.apache.jasper.compiler;

import java.util.*;
import java.io.*;
import javax.servlet.ServletContext;

import org.apache.jasper.JasperException;
import org.apache.jasper.xmlparser.ParserUtils;
import org.apache.jasper.xmlparser.TreeNode;
import org.apache.jasper.compiler.tagplugin.TagPlugin;
import org.apache.jasper.compiler.tagplugin.TagPluginContext;

/**
 * Manages tag plugin optimizations.
 * @author Kin-man Chung
 */

public class TagPluginManager {

    private static final String TAG_PLUGINS_XML = "/WEB-INF/tagPlugins.xml";
    private static final String TAG_PLUGINS_ROOT_ELEM = "tag-plugins";

    private boolean initialized = false;
    private HashMap<String, TagPlugin> tagPlugins = null;
    private ServletContext ctxt;
    private PageInfo pageInfo;

    public TagPluginManager(ServletContext ctxt) {
        this.ctxt = ctxt;
    }

    public void apply(Node.Nodes page, ErrorDispatcher err, PageInfo pageInfo)
        throws JasperException {

        init(err);
        if (tagPlugins == null || tagPlugins.size() == 0) {
            return;
        }
    }

```

```

}

this.pageInfo = pageInfo;

page.visit(new Node.Visitor() {
    public void visit(Node.CustomTag n)
        throws JasperException {
        invokePlugin(n);
        visitBody(n);
    }
});

}

private void init(ErrorDispatcher err) throws JasperException {
if (initialized)
    return;

InputStream is = ctxt.getResourceAsStream(TAG_PLUGINS_XML);
if (is == null)
    return;

TreeNode root = (new ParserUtils()).parseXMLDocument(TAG_PLUGINS_XML,
    is);
if (root == null) {
    return;
}

if (!TAG_PLUGINS_ROOT_ELEM.equals(root.getName())) {
    err.jspError("jsp.error.plugin.wrongRootElement", TAG_PLUGINS_XML,
        TAG_PLUGINS_ROOT_ELEM);
}

tagPlugins = new HashMap<String, TagPlugin>();
Iterator pluginList = root.findChildren("tag-plugin");
while (pluginList.hasNext()) {
    TreeNode pluginNode = (TreeNode) pluginList.next();
    TreeNode tagClassNode = pluginNode.findChild("tag-class");
    if (tagClassNode == null) {
// Error
return;
    }
    String tagClass = tagClassNode.getBody().trim();
    TreeNode pluginClassNode = pluginNode.findChild("plugin-class");
    if (pluginClassNode == null) {
// Error
return;
    }
}
}

```

```

String pluginClassStr = pluginClassNode.getBody();
TagPlugin tagPlugin = null;
try {
Class<? extends TagPlugin> pluginClass =
    Class.forName(pluginClassStr).asSubclass(TagPlugin.class);
tagPlugin = pluginClass.newInstance();
} catch (Exception e) {
throw new JasperException(e);
}
if (tagPlugin == null) {
return;
}
tagPlugins.put(tagClass, tagPlugin);
}
initialized = true;
}

/**
 * Invoke tag plugin for the given custom tag, if a plugin exists for
 * the custom tag's tag handler.
 *
 * The given custom tag node will be manipulated by the plugin.
 */
private void invokePlugin(Node.CustomTag n) {
TagPlugin tagPlugin = tagPlugins.get(n.getTagHandlerClass().getName());
if (tagPlugin == null) {
return;
}

TagPluginContext tagPluginContext = new TagPluginContextImpl(n, pageInfo);
n.setTagPluginContext(tagPluginContext);
tagPlugin.doTag(tagPluginContext);
}

static class TagPluginContextImpl implements TagPluginContext {
private Node.CustomTag node;
private Node.Nodes curNodes;
private PageInfo pageInfo;
private HashMap<String, Object> pluginAttributes;

TagPluginContextImpl(Node.CustomTag n, PageInfo pageInfo) {
this.node = n;
this.pageInfo = pageInfo;
curNodes = new Node.Nodes();
n.setAtETag(curNodes);
curNodes = new Node.Nodes();
n.setAtSTag(curNodes);
}
}

```



```

        n.setUseTagPlugin(true);
        pluginAttributes = new HashMap<String, Object>();
    }

    public TagPluginContext getParentContext() {
        Node parent = node.getParent();
        if (! (parent instanceof Node.CustomTag)) {
            return null;
        }
        return ((Node.CustomTag) parent).getTagPluginContext();
    }

    public void setPluginAttribute(String key, Object value) {
        pluginAttributes.put(key, value);
    }

    public Object getPluginAttribute(String key) {
        return pluginAttributes.get(key);
    }

    public boolean isScriptless() {
        return node.getChildInfo().isScriptless();
    }

    public boolean isConstantAttribute(String attribute) {
        Node.JspAttribute attr = getNodeAttribute(attribute);
        if (attr == null)
            return false;
        return attr.isLiteral();
    }

    public String getConstantAttribute(String attribute) {
        Node.JspAttribute attr = getNodeAttribute(attribute);
        if (attr == null)
            return null;
        return attr.getValue();
    }

    public boolean isAttributeSpecified(String attribute) {
        return getNodeAttribute(attribute) != null;
    }

    public String getTemporaryVariableName() {
        return JspUtil.nextTemporaryVariableName();
    }

    public void generateImport(String imp) {
        pageInfo.addImport(imp);
    }

```

```

}

public void generateDeclaration(String id, String text) {
    if (pageInfo.isPluginDeclared(id)) {
        return;
    }
    curNodes.add(new Node.Declaration(text, node.getStart(), null));
}

public void generateJavaSource(String sourceCode) {
    curNodes.add(new Node.Scriptlet(sourceCode, node.getStart(),
        null));
}

public void generateAttribute(String attributeName) {
    curNodes.add(new Node.AttributeGenerator(node.getStart(),
        attributeName,
        node));
}

public void dontUseTagPlugin() {
    node.setUseTagPlugin(false);
}

public void generateBody() {
    // Since we'll generate the body anyway, this is really a nop,
    // except for the fact that it lets us put the Java sources the
    // plugins produce in the correct order (w.r.t the body).
    curNodes = node.getAtETag();
}

private Node.JspAttribute getNodeAttribute(String attribute) {
    Node.JspAttribute[] attrs = node.getJspAttributes();
    for (int i=0; attrs != null && i < attrs.length; i++) {
        if (attrs[i].getName().equals(attribute)) {
            return attrs[i];
        }
    }
    return null;
}
}
}
}
}
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*/

```
package org.apache.jasper.runtime;
```

```
import java.util.HashMap;  
import javax.el.ELContext;  
import javax.el.ELResolver;  
import javax.el.VariableMapper;  
import javax.el.ValueExpression;
```

```
/**
```

```
 * <p>This is the implementation of VariableMapper.  
 * The compiler creates an empty variable mapper when an ELContext is created.  
 * The variable mapper will be updated by tag handlers, if necessary.  
 *  
 * @author Kin-man Chung  
 * @version $Change: 181177 $$DateTime: 2001/06/26 08:45:09 $$Author: hmalphett $  
 **/
```

```
public class VariableMapperImpl extends VariableMapper
```

```
{
```

```
 //-----
```

```
 /**
```

```
 * Constructor
```

```
 **/
```

```
public VariableMapperImpl () {  
    map = new HashMap<String, ValueExpression>();  
}
```

```
 //-----
```

```
 /**
```

```
 * Resolves the specified variable within the given context.
```

```
 * Returns null if the variable is not found.
```

```
 **/
```

```
public ValueExpression resolveVariable (String variable) {  
    return map.get(variable);  
}
```

```
public ValueExpression setVariable(String variable,  
                                   ValueExpression expression) {
```

```
    ValueExpression prev = null;
```

```
    if (expression == null) {
```

```
        map.remove(variable);
```

```
    } else {
```

```
        prev = map.get(variable);
```

```

        map.put(variable, expression);
    }
    return prev;
}

private HashMap<String, ValueExpression> map;
}
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*/

```

```
package org.apache.jasper.runtime;
```

```

import java.security.AccessController;
import java.security.PrivilegedAction;
import java.util.LinkedList;
import java.util.logging.Logger;
import java.util.logging.Level;

```

```

import javax.servlet.Servlet;
import javax.servlet.ServletException;
import javax.servlet.ServletResponse;
import javax.servlet.ServletContext;
import javax.servlet.jsp.JspFactory;
import javax.servlet.jsp.JspEngineInfo;
import javax.servlet.jsp.PageContext;
import javax.servlet.jsp.JspApplicationContext;

```

```
import org.apache.jasper.Constants;
```

```
/**
```

```
* Implementation of JspFactory.
```

```
*
```

```
* @author Anil K. Vijendran
```

```
* @author Kin-man Chung
```

```
*/
```

```
public class JspFactoryImpl extends JspFactory {
```

```
    // Logger
```

```
    private static Logger log =
```

```
        Logger.getLogger(JspFactoryImpl.class.getName());
```

```

private static final String SPEC_VERSION = "2.1";

// Pooling PageContextImpl instances are known to leak memories, see
// https://glassfish.dev.java.net/issues/show_bug.cgi?id=8601
// So pooling is off by default. If for any reason, backwards
// compatibility is required, set the system property to true.
private static final boolean USE_POOL =
    Boolean.getBoolean(
        "org.apache.jasper.runtime.JspFactoryImpl.USE_POOL");

// Per-thread pool of PageContext objects
private ThreadLocal<LinkedList<PageContext>> pool =
    new ThreadLocal<LinkedList<PageContext>>() {
        protected synchronized LinkedList<PageContext> initialValue() {
            return new LinkedList<PageContext>();
        }
    };

public PageContext getPageContext(Servlet servlet,
    ServletRequest request,
        ServletResponse response,
        String errorPageURL,
        boolean needsSession,
    int bufferSize,
        boolean autoflush) {

    if (Constants.IS_SECURITY_ENABLED) {
        PrivilegedGetPageContext dp =
            new PrivilegedGetPageContext(
                this, servlet, request, response, errorPageURL,
                needsSession, bufferSize, autoflush);
        return AccessController.doPrivileged(dp);
    } else {
        return internalGetPageContext(servlet, request, response,
            errorPageURL, needsSession,
            bufferSize, autoflush);
    }
}

public void releasePageContext(PageContext pc) {
    if( pc == null )
        return;
    if (Constants.IS_SECURITY_ENABLED) {
        PrivilegedReleasePageContext dp =
            new PrivilegedReleasePageContext(this, pc);
        AccessController.doPrivileged(dp);
    } else {
        internalReleasePageContext(pc);
    }
}

```

```

}
}

public JspEngineInfo getEngineInfo() {
    return new JspEngineInfo() {
public String getSpecificationVersion() {
    return SPEC_VERSION;
}
};
}

public JspApplicationContext getJspApplicationContext
    (ServletContext context) {
    return JspApplicationContextImpl.findJspApplicationContext(context);
}

private PageContext internalGetPageContext(Servlet servlet,
    ServletRequest request,
    ServletResponse response,
    String errorPageURL,
    boolean needsSession,
    int bufferSize,
    boolean autoflush) {
    try {
PageContext pc = null;
if( USE_POOL ) {
    LinkedList<PageContext> pcPool = pool.get();
    if (!pcPool.isEmpty()) {
        pc = pcPool.removeFirst();
    }
    if (pc == null) {
        pc = new PageContextImpl(this);
    }
} else {
pc = new PageContextImpl(this);
}
pc.initialize(servlet, request, response, errorPageURL,
    needsSession, bufferSize, autoflush);
    return pc;
} catch (Throwable ex) {
    /* FIXME: need to do something reasonable here!! */
    log.log(Level.SEVERE, "Exception initializing page context", ex);
    return null;
}
}

private void internalReleasePageContext(PageContext pc) {
    pc.release();
}

```



```

if (USE_POOL && (pc instanceof PageContextImpl)) {
    LinkedList<PageContext> pcPool = pool.get();
    pcPool.addFirst(pc);
}
}

```

```

private class PrivilegedGetPageContext
    implements PrivilegedAction<PageContext> {

```

```

private JspFactoryImpl factory;
private Servlet servlet;
private ServletRequest request;
private ServletResponse response;
private String errorPageURL;
private boolean needsSession;
private int bufferSize;
private boolean autoflush;

```

```

PrivilegedGetPageContext(JspFactoryImpl factory,
    Servlet servlet,
    ServletRequest request,
    ServletResponse response,
    String errorPageURL,
    boolean needsSession,
    int bufferSize,
    boolean autoflush) {
    this.factory = factory;
    this.servlet = servlet;
    this.request = request;
    this.response = response;
    this.errorPageURL = errorPageURL;
    this.needsSession = needsSession;
    this.bufferSize = bufferSize;
    this.autoflush = autoflush;
}

```

```

public PageContext run() {
    return factory.internalGetPageContext(servlet,
        request,
        response,
        errorPageURL,
        needsSession,
        bufferSize,
        autoflush);
}
}

```

```

private class PrivilegedReleasePageContext

```

```

    implements PrivilegedAction<Object> {

        private JspFactoryImpl factory;
        private PageContext pageContext;

        PrivilegedReleasePageContext(JspFactoryImpl factory,
            PageContext pageContext) {
            this.factory = factory;
            this.pageContext = pageContext;
        }

        public Object run() {
            factory.internalReleasePageContext(pageContext);
            return null;
        }
    }
}
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*/

```

```
package org.apache.jasper.runtime;
```

```
import javax.el.ELContext;
import javax.el.ELResolver;
import javax.el.FunctionMapper;
import javax.el.VariableMapper;
```

```
/**
```

```

* Concrete implementation of {@link javax.el.ELContext}.
* ELContext's constructor is protected to control creation of ELContext
* objects through their appropriate factory methods. This version of
* ELContext forces construction through JspApplicationContextImpl.
*

```

```

* @author Mark Roth
* @author Kin-man Chung
*/

```

```
public class ELContextImpl
    extends ELContext
```

```
{
```

```
/**
```

```

* Constructs a new ELContext associated with the given ELResolver.

```

```

*/
public ELContextImpl(ELResolver resolver) {
    this.resolver = resolver;
}

public ELResolver getELResolver() {
    return resolver;
}

public void setFunctionMapper(FunctionMapper fnMapper) {
    functionMapper = fnMapper;
}

public FunctionMapper getFunctionMapper() {
    return functionMapper;
}

public void setVariableMapper(VariableMapper varMapper) {
    variableMapper = varMapper;
}

public VariableMapper getVariableMapper() {
    return variableMapper;
}

private FunctionMapper functionMapper;
private VariableMapper variableMapper;
private ELResolver resolver;
}
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 */

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```
import java.io.IOException;
import java.io.Writer;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedActionException;
import java.security.PrivilegedExceptionAction;
import java.util.Collections;
```

```

import java.util.Enumeration;
import java.util.HashMap;
import java.util.Iterator;
import java.util.logging.Logger;
import java.util.logging.Level;

import javax.servlet.Servlet;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.ServletRequest;
import javax.servlet.ServletResponse;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

import javax.servlet.jsp.JspException;
import javax.servlet.jsp.JspFactory;
import javax.servlet.jsp.JspWriter;
import javax.servlet.jsp.PageContext;
import javax.servlet.jsp.JspApplicationContext;
import javax.servlet.jsp.tagext.BodyContent;
import javax.servlet.jsp.el.ExpressionEvaluator;
import javax.servlet.jsp.el.VariableResolver;
import javax.servlet.jsp.el.ImplicitObjectELResolver;
import javax.servlet.jsp.el.ScopedAttributeELResolver;

import javax.el.ELException;
import javax.el.ELResolver;
import javax.el.ELContext;
import javax.el.BeanELResolver;
import javax.el.ArrayELResolver;
import javax.el.MapELResolver;
import javax.el.ResourceBundleELResolver;
import javax.el.ListELResolver;
import javax.el.CompositeELResolver;
import javax.el.ValueExpression;
import javax.el.FunctionMapper;
import javax.el.MethodExpression;
import javax.el.ExpressionFactory;

import org.apache.jasper.Constants;
import org.apache.jasper.compiler.Localizer;
import org.apache.jasper.security.SecurityUtil;

/**
 * Implementation of the PageContext class from the JSP spec.
 */

```

```

* @author Anil K. Vijendran
* @author Larry Cable
* @author Hans Bergsten
* @author Pierre Delisle
* @author Mark Roth
* @author Jan Luehe
* @author Kin-man Chung
*/
public class PageContextImpl extends PageContext {

    // Logger
    private static Logger log = Logger.getLogger(PageContextImpl.class.getName());

    // per-servlet state
    private BodyContentImpl[] outs;
    private int depth;
    private Servlet servlet;
    private ServletConfig config;
    private ServletContext context;
    private JspFactory factory;
    private boolean needsSession;
    private String errorPageURL;
    private int bufferSize;
    private JspApplicationContextImpl jspApplicationContext;
    private ELResolver elResolver;
    private ELContext elContext;

    // page-scope attributes
    private HashMap<String, Object> attributes;
    private boolean isNametableInitialized;

    // per-request state
    private ServletRequest request;
    private ServletResponse response;
    private HttpSession session;

    // initial output stream
    private JspWriter out;
    private JspWriterImpl baseOut;

    /*
    * Constructor.
    */
    PageContextImpl(JspFactory factory) {
        this.factory = factory;
        this.outs = new BodyContentImpl[0];
        this.attributes = new HashMap<String, Object>(16);
        this.depth = -1;
    }

```

```

}

public void initialize(Servlet servlet,
    ServletRequest request,
        ServletResponse response,
    String errorPageURL,
        boolean needsSession,
    int bufferSize,
        boolean autoFlush) throws IOException {

_initialize(servlet, request, response, errorPageURL, needsSession,
    bufferSize, autoFlush);
}

private void _initialize(Servlet servlet,
    ServletRequest request,
    ServletResponse response,
    String errorPageURL,
    boolean needsSession,
    int bufferSize,
    boolean autoFlush) throws IOException {

// initialize state
this.servlet = servlet;
this.config = servlet.getServletConfig();
this.context = config.getServletContext();
this.needsSession = needsSession;
this.errorPageURL = errorPageURL;
this.bufferSize = bufferSize;
this.request = request;
this.response = response;

// Setup session (if required)
if (request instanceof HttpServletRequest && needsSession)
    this.session = ((HttpServletRequest)request).getSession();
if (needsSession && session == null)
    throw new IllegalStateException
        ("Page needs a session and none is available");

// initialize the initial out ...
depth = -1;
if (this.baseOut == null) {
    this.baseOut = new JspWriterImpl(response, bufferSize, autoFlush);
} else {
    this.baseOut.init(response, bufferSize, autoFlush);
}
this.out = baseOut;

```



```

        this.isNametableInitialized = false;
        setAttribute(Constants.FIRST_REQUEST_SEEN, "true", APPLICATION_SCOPE);

    }

    private void initializePageScopeNameTable() {
        isNametableInitialized = true;
        // register names/values as per spec
        setAttribute(OUT, this.out);
        setAttribute(REQUEST, request);
        setAttribute(RESPONSE, response);

        if (session != null)
            setAttribute(SESSION, session);

        setAttribute(PAGE, servlet);
        setAttribute(CONFIG, config);
        setAttribute(PAGECONTEXT, this);
        setAttribute(APPLICATION, context);
    }

    public void release() {
        out = baseOut;
    try {
        // Do not flush the buffer even if we're not included (i.e.
        // we are the main page. The servlet will flush it and close
        // the stream.
        ((JspWriterImpl)out).flushBuffer();
    } catch (IOException ex) {
        log.warning("Internal error flushing the buffer in release()");
    }

    servlet = null;
    config = null;
    context = null;
        elContext = null;
        elResolver = null;
        jspApplicationContext = null;
    needsSession = false;
    errorPageURL = null;
    bufferSize = JspWriter.DEFAULT_BUFFER;
    request = null;
    response = null;
        depth = -1;
    baseOut.recycle();
    session = null;

    attributes.clear();

```

```

}

public Object getAttribute(final String name) {

    if (name == null) {
        throw new NullPointerException(
            Localizer.getMessage("jsp.error.attribute.null_name"));
    }

    if (SecurityUtil.isPackageProtectionEnabled()){
        return AccessController.doPrivileged(new PrivilegedAction<Object>(){
            public Object run(){
                return doGetAttribute(name);
            }
        });
    } else {
        return doGetAttribute(name);
    }

}

private Object doGetAttribute(String name){
    if (!isNametableInitialized) {
        initializePageScopeNameTable();
    }
    return attributes.get(name);
}

public Object getAttribute(final String name, final int scope) {

    if (name == null) {
        throw new NullPointerException(
            Localizer.getMessage("jsp.error.attribute.null_name"));
    }

    if (SecurityUtil.isPackageProtectionEnabled()){
        return AccessController.doPrivileged(new PrivilegedAction<Object>(){
            public Object run(){
                return doGetAttribute(name, scope);
            }
        });
    } else {
        return doGetAttribute(name, scope);
    }

}

private Object doGetAttribute(String name, int scope){

```

```

switch (scope) {
    case PAGE_SCOPE:
        if (!isNametableInitialized) {
            initializePageScopeNameTable();
        }
        return attributes.get(name);

    case REQUEST_SCOPE:
        return request.getAttribute(name);

    case SESSION_SCOPE:
        if (session == null) {
            throw new IllegalStateException(
                Localizer.getMessage("jsp.error.page.noSession"));
        }
        return session.getAttribute(name);

    case APPLICATION_SCOPE:
        return context.getAttribute(name);

    default:
        throw new IllegalArgumentException("Invalid scope");
}
}

public void setAttribute(final String name, final Object attribute) {

    if (name == null) {
        throw new NullPointerException(
            Localizer.getMessage("jsp.error.attribute.null_name"));
    }

    if (SecurityUtil.isPackageProtectionEnabled()){
        AccessController.doPrivileged(new PrivilegedAction<Object>(){
            public Object run(){
                doSetAttribute(name, attribute);
                return null;
            }
        });
    } else {
        doSetAttribute(name, attribute);
    }
}

private void doSetAttribute(String name, Object attribute){
    if (attribute != null) {
        if (!isNametableInitialized) {
            initializePageScopeNameTable();
        }
    }
}

```

```

    }
    attributes.put(name, attribute);
} else {
    removeAttribute(name, PAGE_SCOPE);
}
}

public void setAttribute(final String name, final Object o, final int scope) {

    if (name == null) {
        throw new NullPointerException(
            Localizer.getMessage("jsp.error.attribute.null_name"));
    }

    if (SecurityUtil.isPackageProtectionEnabled()){
        AccessController.doPrivileged(new PrivilegedAction<Object>(){
            public Object run(){
                doSetAttribute(name, o, scope);
                return null;
            }
        });
    } else {
        doSetAttribute(name, o, scope);
    }

}

private void doSetAttribute(String name, Object o, int scope ){
    if (o != null) {
        switch (scope) {
            case PAGE_SCOPE:
                if (!isNametableInitialized) {
                    initializePageScopeNameTable();
                }
                attributes.put(name, o);
                break;

            case REQUEST_SCOPE:
                request.setAttribute(name, o);
                break;

            case SESSION_SCOPE:
                if (session == null) {
                    throw new IllegalStateException(
                        Localizer.getMessage("jsp.error.page.noSession"));
                }
                session.setAttribute(name, o);
                break;
        }
    }
}

```

```

        case APPLICATION_SCOPE:
            context.setAttribute(name, o);
            break;

        default:
            throw new IllegalArgumentException("Invalid scope");
    }
} else {
    removeAttribute(name, scope);
}
}

public void removeAttribute(final String name, final int scope) {

    if (name == null) {
        throw new NullPointerException(
            Localizer.getMessage("jsp.error.attribute.null_name"));
    }
    if (SecurityUtil.isPackageProtectionEnabled()){
        AccessController.doPrivileged(new PrivilegedAction<Object>(){
            public Object run(){
                doRemoveAttribute(name, scope);
                return null;
            }
        });
    } else {
        doRemoveAttribute(name, scope);
    }
}

private void doRemoveAttribute(String name, int scope){
    switch (scope) {
        case PAGE_SCOPE:
            if (!isNametableInitialized) {
                initializePageScopeNameTable();
            }
            attributes.remove(name);
            break;

        case REQUEST_SCOPE:
            request.removeAttribute(name);
            break;

        case SESSION_SCOPE:
            if (session == null) {
                throw new IllegalStateException(
                    Localizer.getMessage("jsp.error.page.noSession"));
            }
    }
}

```

```

    }
    session.removeAttribute(name);
    break;

case APPLICATION_SCOPE:
    context.removeAttribute(name);
    break;

default:
    throw new IllegalArgumentException("Invalid scope");
}
}

public int getAttributesScope(final String name) {

    if (name == null) {
        throw new NullPointerException(
            Localizer.getMessage("jsp.error.attribute.null_name"));
    }

    if (SecurityUtil.isPackageProtectionEnabled()){
        return (AccessController.doPrivileged(new PrivilegedAction<Integer>(){
            public Integer run(){
                return Integer.valueOf(doGetAttributeScope(name));
            }
        })).intValue();
    } else {
        return doGetAttributeScope(name);
    }
}

private int doGetAttributeScope(String name){

    if (!isNametableInitialized) {
        initializePageScopeNameTable();
    }

    if (attributes.get(name) != null)
        return PAGE_SCOPE;

    if (request.getAttribute(name) != null)
        return REQUEST_SCOPE;

    if (session != null) {
        try {
            if (session.getAttribute(name) != null)
                return SESSION_SCOPE;
        } catch (IllegalStateException ex) {

```

```

        // Session has been invalidated.
        // Ignore and fall through to application scope.
    }
}

if (context.getAttribute(name) != null)
    return APPLICATION_SCOPE;

return 0;
}

public Object findAttribute(final String name) {
    if (SecurityUtil.isPackageProtectionEnabled()){
        return AccessController.doPrivileged(new PrivilegedAction<Object>(){
            public Object run(){
                if (name == null) {
                    throw new NullPointerException(
                        Localizer.getMessage("jsp.error.attribute.null_name"));
                }

                return doFindAttribute(name);
            }
        });
    } else {
        if (name == null) {
            throw new NullPointerException(
                Localizer.getMessage("jsp.error.attribute.null_name"));
        }

        return doFindAttribute(name);
    }
}

private Object doFindAttribute(String name){

    if (!isNametableInitialized) {
        initializePageScopeNameTable();
    }

    Object o = attributes.get(name);
    if (o != null)
        return o;

    o = request.getAttribute(name);
    if (o != null)
        return o;

    if (session != null) {

```

```

try {
    o = session.getAttribute(name);
} catch (IllegalStateException ex) {
    // Session has been invalidated.
    // Ignore and fall through to application scope.
}

if (o != null) return o;
}

return context.getAttribute(name);
}

public Enumeration<String> getAttributeNamesInScope(final int scope) {
    if (SecurityUtil.isPackageProtectionEnabled()){
        return AccessController.doPrivileged(
            new PrivilegedAction<Enumeration<String>>(){
                public Enumeration<String> run(){
                    return doGetAttributeNamesInScope(scope);
                }
            });
    } else {
        return doGetAttributeNamesInScope(scope);
    }
}

private Enumeration<String> doGetAttributeNamesInScope(int scope){
    switch (scope) {
        case PAGE_SCOPE:
            if (!isNametableInitialized) {
                initializePageScopeNameTable();
            }
            return Collections.enumeration(attributes.keySet());

        case REQUEST_SCOPE:
            return request.getAttributeNames();

        case SESSION_SCOPE:
            if (session == null) {
                throw new IllegalStateException(
                    Localizer.getMessage("jsp.error.page.noSession"));
            }
            return session.getAttributeNames();

        case APPLICATION_SCOPE:
            return context.getAttributeNames();
    }
}

```



```

default:
    throw new IllegalArgumentException("Invalid scope");
}
}

public void removeAttribute(final String name) {

    if (name == null) {
        throw new NullPointerException(
            Localizer.getMessage("jsp.error.attribute.null_name"));
    }

    if (SecurityUtil.isPackageProtectionEnabled()){
        AccessController.doPrivileged(new PrivilegedAction<Object>(){
            public Object run(){
                doRemoveAttribute(name);
                return null;
            }
        });
    } else {
        doRemoveAttribute(name);
    }
}

private void doRemoveAttribute(String name){
    removeAttribute(name, PAGE_SCOPE);
    removeAttribute(name, REQUEST_SCOPE);
    if( session != null ) {
        try {
            removeAttribute(name, SESSION_SCOPE);
        } catch (IllegalStateException ex) {
            // Session has been invalidated.
            // Ignore and fall through to application scope.
        }
    }
    removeAttribute(name, APPLICATION_SCOPE);
}

public JspWriter getOut() {
return out;
}

public HttpSession getSession() { return session; }
public Servlet getServlet() { return servlet; }
public ServletConfig getServletConfig() { return config; }
public ServletContext getServletContext() {
return config.getServletContext();
}
}

```

```

public ServletRequest getRequest() { return request; }
public ServletResponse getResponse() { return response; }

/**
 * Returns the exception associated with this page context, if any.
 *
 * Added wrapping for Throwables to avoid ClassCastException
 * (see Bugzilla 31171 for details).
 *
 * @return The Exception associated with this page context, if any.
 */
public Exception getException() {

    Throwable t = JspRuntimeLibrary.getThrowable(request);

    // Only wrap if needed
    if((t != null) && !(t instanceof Exception)) {
        t = new JspException(t);
    }

    return (Exception) t;
}

public Object getPage() { return servlet; }

private final String getAbsolutePathRelativeToContext(String relativeUrlPath) {
    String path = relativeUrlPath;

    if (!path.startsWith("/")) {
        String uri = (String)
request.getAttribute("javax.servlet.include.servlet_path");
        if (uri == null)
uri = ((HttpServletRequest) request).getServletPath();
        String baseURI = uri.substring(0, uri.lastIndexOf('/'));
        path = baseURI+'/'+path;
    }

    return path;
}

public void include(String relativeUrlPath)
    throws ServletException, IOException {
    JspRuntimeLibrary.include(request, response, relativeUrlPath, out,
true);
}

```

```

/*
 * No need to execute include inside a privileged block, since it calls
 * ApplicationDispatcher include, which in turn is executed inside a
 * privileged block
 */
public void include(String relativeUrlPath, boolean flush)
    throws ServletException, IOException {
    JspRuntimeLibrary.include(request, response, relativeUrlPath, out,
    flush);
}

public VariableResolver getVariableResolver() {
    return new VariableResolverImpl(this);
}

private ELResolver getELResolver() {

    if (elResolver == null) {
        // Create a CompositeELResolver
        CompositeELResolver celResolver = new CompositeELResolver();

        celResolver.add(new ImplicitObjectELResolver());
        // Add ELResolvers registered in JspApplicationContext
        JspApplicationContextImpl jaContext = getJspApplicationContext();
        Iterator<ELResolver> it = jaContext.getELResolvers();
        while (it.hasNext()) {
            celResolver.add(it.next());
        }
        celResolver.add(new MapELResolver());
        celResolver.add(new ResourceBundleELResolver());
        celResolver.add(new ListELResolver());
        celResolver.add(new ArrayELResolver());
        celResolver.add(new BeanELResolver());
        celResolver.add(new ScopedAttributeELResolver());
        elResolver = celResolver;
    }
    return elResolver;
}

public ELContext getELContext() {
    if (elContext == null) {
        elContext = getJspApplicationContext().createELContext(
            getELResolver());
        elContext.putContext(javax.servlet.jsp.JspContext.class, this);
        ((ELContextImpl)elContext).setVariableMapper(
            new VariableMapperImpl());
    }
}

```

```

        return elContext;
    }

    JspApplicationContextImpl getJspApplicationContext() {
        if (jspApplicationContext == null) {
            jspApplicationContext =
                JspApplicationContextImpl.findJspApplicationContext(context);
        }
        return jspApplicationContext;
    }

    /*
    * No need to execute forward inside a privileged block, since it calls
    * ApplicationDispatcher forward, which in turn is executed inside a
    * privileged block
    */
    public void forward(String relativeUriPath)
        throws ServletException, IOException{

        // JSP.4.5 If the buffer was flushed, throw IllegalStateException
        try {
            out.clear();
        } catch (IOException ex) {
            IllegalStateException ise =
                new IllegalStateException(Localizer.getMessage(
                    "jsp.error.attempt_to_clear_flushed_buffer"));
            ise.initCause(ex);
            throw ise;
        }

        // Make sure that the response object is not the wrapper for include
        while (response instanceof ServletResponseWrapperInclude) {
            response = ((ServletResponseWrapperInclude)response).getResponse();
        }

        final String path = getAbsolutePathRelativeToContext(relativeUriPath);
        String includeUri
            = (String) request.getAttribute(Constants.INC_SERVLET_PATH);

        final ServletResponse fresponse = response;
        final ServletRequest frequest = request;

        if (includeUri != null)
            request.removeAttribute(Constants.INC_SERVLET_PATH);
        try {
            context.getRequestDispatcher(path).forward(request, response);
        } finally {
            if (includeUri != null)

```

```

        request.setAttribute(Constants.INC_SERVLET_PATH, includeUri);
        request.setAttribute(Constants.FORWARD_SEEN, "true");
    }
}

public BodyContent pushBody() {
return (BodyContent) pushBody(null);
}

// Note that there is a potential memory leak with way BodyContentImpl
// are pooled. The "outs" array is extended in pushBody, but not shrinked
// in popBody; and BodyContentImpl.cb can gets arbitrarily large.
// See https://glassfish.dev.java.net/issues/show_bug.cgi?id=8601
// Setting FactoryImpl.USE_POOL to false eliminates most of the leak,
// but not all -- kchung 6/29/2009
public JspWriter pushBody(Writer writer) {
    depth++;
    if (depth >= outs.length) {
        BodyContentImpl[] newOuts = new BodyContentImpl[depth + 1];
        for (int i=0; i<outs.length; i++) {
            newOuts[i] = outs[i];
        }
        newOuts[depth] = new BodyContentImpl(out);
        outs = newOuts;
    }

outs[depth].setWriter(writer);
    out = outs[depth];

// Update the value of the "out" attribute in the page scope
// attribute namespace of this PageContext
setAttribute(OUT, out);

    return outs[depth];
}

public JspWriter popBody() {
    depth--;
    if (depth >= 0) {
        out = outs[depth];
    } else {
        out = baseOut;
    }
}

// Update the value of the "out" attribute in the page scope
// attribute namespace of this PageContext
setAttribute(OUT, out);

```

```

    return out;
}

/**
 * Provides programmatic access to the ExpressionEvaluator.
 * The JSP Container must return a valid instance of an
 * ExpressionEvaluator that can parse EL expressions.
 */
public ExpressionEvaluator getExpressionEvaluator() {
    return new ExpressionEvaluatorImpl(this);
}

public void handlePageException(Exception ex)
    throws IOException, ServletException
{
    // Should never be called since handleException() called with a
    // Throwable in the generated servlet.
    handlePageException((Throwable) ex);
}

public void handlePageException(final Throwable t)
    throws IOException, ServletException
{
    if (t == null)
        throw new NullPointerException("null Throwable");

    if (SecurityUtil.isPackageProtectionEnabled()){
        try{
            AccessController.doPrivileged(new PrivilegedExceptionAction<Object>(){
                public Object run() throws Exception{
                    doHandlePageException(t);
                    return null;
                }
            });
        } catch (PrivilegedActionException e){
            Exception ex = e.getException();
            if (ex instanceof IOException){
                throw (IOException)ex;
            } else {
                throw (ServletException)ex;
            }
        }
    } else {
        doHandlePageException(t);
    }
}
}

```

```

private void doHandlePageException(Throwable t)
    throws IOException, ServletException {

    if (errorPageURL != null && !errorPageURL.equals("")) {

        /*
        * Set request attributes.
        * Do not set the javax.servlet.error.exception attribute here
        * (instead, set in the generated servlet code for the error page)
        * in order to prevent the ErrorReportValve, which is invoked as
        * part of forwarding the request to the error page, from
        * throwing it if the response has not been committed (the response
        * will have been committed if the error page is a JSP page).
        */
        request.setAttribute("javax.servlet.jsp.jspException", t);
        request.setAttribute("javax.servlet.error.status_code",
            Integer.valueOf(HttpServletResponse.SC_INTERNAL_SERVER_ERROR));
        request.setAttribute("javax.servlet.error.request_uri",
            ((HttpServletRequest) request).getRequestURI());
        request.setAttribute("javax.servlet.error.servlet_name",
            config.getServletName());
        try {
            forward(errorPageURL);
        } catch (IllegalStateException ise) {
            include(errorPageURL);
        }

        // The error page could be inside an include.

        Object newException = request.getAttribute("javax.servlet.error.exception");

        // t==null means the attribute was not set.
        if( (newException!= null) && (newException==t) ) {
            request.removeAttribute("javax.servlet.error.exception");
            request.setAttribute(Constants.JSP_ERROR_HANDLED, Boolean.TRUE);
        }

        // now clear the error code - to prevent double handling.
        request.removeAttribute("javax.servlet.error.status_code");
        request.removeAttribute("javax.servlet.error.request_uri");
        request.removeAttribute("javax.servlet.jsp.jspException");

    } else {

        // Otherwise throw the exception wrapped inside a ServletException.
        // Set the exception as the root cause in the ServletException
        // to get a stack trace for the real problem
        if (t instanceof IOException) throw (IOException)t;
    }
}

```

```

        if (t instanceof ServletException) throw (ServletException)t;
        if (t instanceof RuntimeException) throw (RuntimeException)t;
        if (t instanceof Error) throw (Error)t;

        Throwable rootCause = null;
        if (t instanceof JspException) {
            rootCause = ((JspException) t).getRootCause();
        } else if (t instanceof ELException) {
            rootCause = t.getCause();
        }

        if (rootCause != null) {
            throw new ServletException(t.getMessage(), rootCause);
        }

        throw new ServletException(t);
    }
}

private static ExpressionFactory getExpressionFactory(
    PageContext pageContext) {

    PageContextImpl pc =
        (PageContextImpl) JspContextWrapper.getRootPageContext(pageContext);
    return pc.getJspApplicationContext().getExpressionFactory();
}

/**
 * Evaluates an EL expression
 *
 * @param expression The expression to be evaluated
 * @param expectedType The expected resulting type
 * @param pageContext The page context
 * @param functionMap Maps prefix and name to Method
 * @return The result of the evaluation
 */
public static Object evaluateExpression(final String expression,
    final Class expectedType,
    final PageContext pageContext,
    final ProtectedFunctionMapper functionMap)
throws ELException
{
    Object retValue;
    if (SecurityUtil.isPackageProtectionEnabled()){
        try {
            retValue = AccessController.doPrivileged(
                new PrivilegedExceptionAction<Object>(){

```



```

public Object run() throws Exception{
    ELContextImpl elContext =
        (ELContextImpl) pageContext.getELContext();
    elContext.setFunctionMapper(functionMap);
    ExpressionFactory expFactory = getExpressionFactory(pageContext);
    ValueExpression expr =
        expFactory.createValueExpression(
            elContext,
            expression,
            expectedType);
    return expr.getValue(elContext);
}
});
} catch (PrivilegedActionException ex) {
    Exception realEx = ex.getException();
if (realEx instanceof ELException) {
    throw (ELException) realEx;
} else {
    throw new ELException(realEx);
}
}
} else {
    ELContextImpl elContext = (ELContextImpl)pageContext.getELContext();
    elContext.setFunctionMapper(functionMap);
    ExpressionFactory expFactory = getExpressionFactory(pageContext);
    ValueExpression expr = expFactory.createValueExpression(
        elContext,
        expression,
        expectedType);
    retValue = expr.getValue(elContext);
}
return retValue;
}

public static ValueExpression getValueExpression(String expression,
        PageContext pageContext,
        Class expectedType,
        FunctionMapper functionMap)
{
    // ELResolvers are not used in createValueExpression
    ELContextImpl elctx = (ELContextImpl)pageContext.getELContext();
    elctx.setFunctionMapper(functionMap);
    ExpressionFactory expFactory = getExpressionFactory(pageContext);
    return expFactory.createValueExpression(elctx,
        expression,
        expectedType);
}
}

```

```

public static MethodExpression getMethodExpression(
    String expression,
    PageContext pageContext,
    FunctionMapper functionMap,
    Class expectedType,
    Class[] paramTypes) {

    ELContextImpl elctxt = (ELContextImpl)pageContext.getELContext();
    elctxt.setFunctionMapper(functionMap);
    ExpressionFactory expFactory = getExpressionFactory(pageContext);
    return expFactory.createMethodExpression(
        elctxt,
        expression,
        expectedType,
        paramTypes);
}

public static void setValueVariable(PageContext pageContext,
    String variable,
    ValueExpression expression) {
    ELContextImpl elctxt = (ELContextImpl)pageContext.getELContext();
    elctxt.getVariableMapper().setVariable(variable, expression);
}

public static void setMethodVariable(PageContext pageContext,
    String variable,
    MethodExpression expression) {
    ExpressionFactory expFactory = getExpressionFactory(pageContext);
    ValueExpression exp =
        expFactory.createValueExpression(expression, Object.class);
    setValueVariable(pageContext, variable, exp);
}
}
}
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*/

```
package org.apache.jasper.runtime;
```

```
import javax.el.ELContext;  
import javax.el.ELResolver;  
import javax.servlet.jsp.PageContext;
```

```

import javax.servlet.jsp.el.VariableResolver;

/**
 * <p>This is the implementation of VariableResolver in JSP 2.0,
 * using ELResolver in JSP2.1.
 * It looks up variable references in the PageContext, and also
 * recognizes references to implicit objects.
 *
 * @author Kin-man Chung
 * @version $Change: 181177 $$DateTime: 2001/06/26 08:45:09 $$Author: hmalphett $
 */

public class VariableResolverImpl
    implements VariableResolver
{
    private PageContext pageContext;

    //-----
    /**
     * Constructor
     */
    public VariableResolverImpl (PageContext pageContext) {
        this.pageContext = pageContext;
    }

    //-----
    /**
     * Resolves the specified variable within the given context.
     * Returns null if the variable is not found.
     */
    public Object resolveVariable (String pName)
        throws javax.servlet.jsp.el.ELEException {

        ELContext elContext = pageContext.getELContext();
        ELResolver elResolver = elContext.getELResolver();
        try {
            return elResolver.getValue(elContext, null, pName);
        } catch (javax.el.ELEException ex) {
            throw new javax.servlet.jsp.el.ELEException();
        }
    }
}

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*/

```
package org.apache.jasper.runtime;
```

```
import java.io.IOException;  
import java.io.Writer;  
import java.security.AccessController;  
import java.security.PrivilegedAction;
```

```
import javax.servlet.ServletResponse;  
import javax.servlet.jsp.JspWriter;
```

```
import org.apache.jasper.Constants;  
import org.apache.jasper.compiler.Localizer;  
import org.apache.jasper.security.SecurityUtil;
```

```
import org.glassfish.jsp.api.ByteWriter;
```

```
/**
```

```
 * Write text to a character-output stream, buffering characters so as  
 * to provide for the efficient writing of single characters, arrays,  
 * and strings.
```

```
 *
```

```
 * Provide support for discarding for the output that has been  
 * buffered.
```

```
 *
```

```
 * This needs revisiting when the buffering problems in the JSP spec  
 * are fixed -akv What buffering problems? -kmc
```

```
 *
```

```
 * Add method for writing bytes. This allows static texts to be pre-encoded,  
 * for performance. Note that this can be done only if the page is unbuffered.  
 * -kmc
```

```
 *
```

```
 * @author Anil K. Vijendran
```

```
 * @author Kin-man Chung
```

```
*/
```

```
public class JspWriterImpl extends JspWriter {
```

```
    private Writer out;  
    private ServletResponse response;  
    private char cb[];  
    private int nextChar;  
    private boolean flushed = false;  
    private boolean closed = false;
```

```

protected boolean implementsByteWriter = true;
protected ByteWriter byteOut;

public JspWriterImpl() {
super( Constants.DEFAULT_BUFFER_SIZE, true );
}

/**
 * Create a buffered character-output stream that uses a default-sized
 * output buffer.
 *
 * @param response A Servlet Response
 */
public JspWriterImpl(ServletResponse response) {
    this(response, Constants.DEFAULT_BUFFER_SIZE, true);
}

/**
 * Create a new buffered character-output stream that uses an output
 * buffer of the given size.
 *
 * @param response A Servlet Response
 * @param sz Output-buffer size, a positive integer
 *
 * @exception IllegalArgumentException If sz is <= 0
 */
public JspWriterImpl(ServletResponse response, int sz,
                    boolean autoFlush) {
    super(sz, autoFlush);
    if (sz < 0)
        throw new IllegalArgumentException("Buffer size <= 0");
    this.response = response;
    cb = sz == 0 ? null : new char[sz];
    nextChar = 0;
    // START OF IASRI 4641975/6172992
    try {
        response.setBufferSize(sz);
    } catch (IllegalStateException ise) {
        // ignore
    }
    // END OF IASRI 4641975/6172992
}

void init( ServletResponse response, int sz, boolean autoFlush ) {
this.response= response;
if( sz > 0 && ( cb == null || sz > cb.length ) )
    cb=new char[sz];
nextChar = 0;

```

```

this.autoFlush=autoFlush;
this.bufferSize=sz;
    // START OF IASRI 4641975/6172992
    try {
        response.setBufferSize(sz);
    } catch (IllegalStateException ise) {
        // ignore
    }
    // END OF IASRI 4641975/6172992
}

/** Package-level access
 */
void recycle() {
flushed = false;
    closed = false;
    out = null;
    byteOut = null;
nextChar = 0;
    response = null;
}

/**
 * Flush the output buffer to the underlying character stream, without
 * flushing the stream itself. This method is non-private only so that it
 * may be invoked by PrintStream.
 */
protected final void flushBuffer() throws IOException {
    if (bufferSize == 0)
        return;
    flushed = true;
    ensureOpen();
    if (nextChar == 0)
        return;
    initOut();
    out.write(cb, 0, nextChar);
    nextChar = 0;
}

private void initOut() throws IOException {
    if (out == null) {
        out = response.getWriter();
    }
}

private String getLocalizedMessage(final String message){
    if (SecurityUtil.isPackageProtectionEnabled()){
        return AccessController.doPrivileged(

```



```

        new PrivilegedAction<String>(){
            public String run(){
                return Localizer.getMessage(message);
            }
        });
    } else {
        return Localizer.getMessage(message);
    }
}

/**
 * Discard the output buffer.
 */
public final void clear() throws IOException {
    if ((bufferSize == 0) && (out != null))
        // clear() is illegal after any unbuffered output (JSP.5.5)
        throw new IllegalStateException(
            getLocalizedMessage("jsp.error.ise_on_clear"));
    if (flushed)
        throw new IOException(
            getLocalizedMessage("jsp.error.attempt_to_clear_flushed_buffer"));
    ensureOpen();
    nextChar = 0;
}

public void clearBuffer() throws IOException {
    if (bufferSize == 0)
        throw new IllegalStateException(
            getLocalizedMessage("jsp.error.ise_on_clear"));
    ensureOpen();
    nextChar = 0;
}

private final void bufferOverflow() throws IOException {
    throw new IOException(getLocalizedMessage("jsp.error.overflow"));
}

/**
 * Flush the stream.
 */
public void flush() throws IOException {
    flushBuffer();
    if (out != null) {
        out.flush();
    }
    // START 6426898
    else {

```

```

        // Set the default character encoding if there isn't any present,
        // see CR 6699416
        response.setCharacterEncoding(response.getCharacterEncoding());

        // Cause response headers to be sent
        response.flushBuffer();
    }
    // END 6426898
}

/**
 * Close the stream.
 *
 */
public void close() throws IOException {
    if (response == null || closed)
        // multiple calls to close is OK
        return;
    flush();
    if (out != null)
        out.close();
    out = null;
    byteOut = null;
    closed = true;
}

/**
 * @return the number of bytes unused in the buffer
 */
public int getRemaining() {
    return bufferSize - nextChar;
}

/** check to make sure that the stream has not been closed */
private void ensureOpen() throws IOException {
    if (response == null || closed)
        throw new IOException("Stream closed");
}

/**
 * Attempt to write a String pre-encoded with the page encoding.
 *
 * @param bytesOK If true, write out the byte array,
 *                else, write out the String.
 * @param buf     The text encoded with the page encoding
 * @param str     The original text
 */

```

```

public void write(boolean bytesOK, byte buf[], String str)
    throws IOException {

    ensureOpen();
    if (bufferSize == 0 && bytesOK) {
        initByteOut();
        if (implementsByteWriter) {
            write(buf, 0, buf.length);
            return;
        }
    }
    write(str);
}

/* Returns true if bytes should be outputted.
 * Used by ServletResponseWrapperInclude.
 */
boolean shouldOutputBytes() {
    if (bufferSize > 0) {
        return false;
    }
    try {
        initByteOut();
    } catch (IOException ex) {
    }
    return implementsByteWriter;
}

private void initByteOut() throws IOException {
    initOut();
    if (byteOut == null) {
        try {
            byteOut = (ByteWriter) out;
            implementsByteWriter = true;
        } catch (ClassCastException ex) {
            implementsByteWriter = false;
        }
    }
}

public void write(byte buf[], int off, int len)
    throws IOException {
    byteOut.write(buf, off, len);
}

```

```

/**
 * Write a single character.

```

```

*/
public void write(int c) throws IOException {
    ensureOpen();
    if (bufferSize == 0) {
        initOut();
        out.write(c);
    }
    else {
        if (nextChar >= bufferSize)
            if (autoFlush)
                flushBuffer();
            else
                bufferOverflow();
        cb[nextChar++] = (char) c;
    }
}

/**
 * Our own little min method, to avoid loading java.lang.Math if we've run
 * out of file descriptors and we're trying to print a stack trace.
 */
private int min(int a, int b) {
if (a < b) return a;
return b;
}

/**
 * Write a portion of an array of characters.
 *
 * <p> Ordinarily this method stores characters from the given array into
 * this stream's buffer, flushing the buffer to the underlying stream as
 * needed. If the requested length is at least as large as the buffer,
 * however, then this method will flush the buffer and write the characters
 * directly to the underlying stream. Thus redundant
 * <code>DiscardableBufferedWriter</code>s will not copy data unnecessarily.
 *
 * @param cbuf A character array
 * @param off Offset from which to start reading characters
 * @param len Number of characters to write
 */
public void write(char cbuf[], int off, int len)
    throws IOException
{
    ensureOpen();

    if (bufferSize == 0) {
        initOut();
        out.write(cbuf, off, len);
    }
}

```

```

        return;
    }

    if ((off < 0) || (off > cbuf.length) || (len < 0) ||
        ((off + len) > cbuf.length) || ((off + len) < 0)) {
        throw new IndexOutOfBoundsException();
    } else if (len == 0) {
        return;
    }

    if (len >= bufferSize) {
        /* If the request length exceeds the size of the output buffer,
           flush the buffer and then write the data directly. In this
           way buffered streams will cascade harmlessly. */
        if (autoFlush)
            flushBuffer();
        else
            bufferOverflow();
        initOut();
        out.write(cbuf, off, len);
        return;
    }

    int b = off, t = off + len;
    while (b < t) {
        int d = min(bufferSize - nextChar, t - b);
        System.arraycopy(cbuf, b, cb, nextChar, d);
        b += d;
        nextChar += d;
        if (nextChar >= bufferSize)
            if (autoFlush)
                flushBuffer();
            else
                bufferOverflow();
    }
}

/**
 * Write an array of characters. This method cannot be inherited from the
 * Writer class because it must suppress I/O exceptions.
 */
public void write(char buf[]) throws IOException {
    write(buf, 0, buf.length);
}

/**
 * Write a portion of a String.

```

```

*
* @param s String to be written
* @param off Offset from which to start reading characters
* @param len Number of characters to be written
*/
public void write(String s, int off, int len) throws IOException {
    ensureOpen();
    if (bufferSize == 0) {
        initOut();
        out.write(s, off, len);
        return;
    }
    int b = off, t = off + len;
    while (b < t) {
        int d = min(bufferSize - nextChar, t - b);
        s.getChars(b, b + d, cb, nextChar);
        b += d;
        nextChar += d;
        if (nextChar >= bufferSize)
            if (autoFlush)
                flushBuffer();
            else
                bufferOverflow();
    }
}

/**
 * Write a string. This method cannot be inherited from the Writer class
 * because it must suppress I/O exceptions.
 */
public void write(String s) throws IOException {
    // Simple fix for Bugzilla 35410
    // Calling the other write function so as to init the buffer anyways
    write(s, 0, (s != null) ? s.length() : 0);
}

static String lineSeparator = System.getProperty("line.separator");

/**
 * Write a line separator. The line separator string is defined by the
 * system property <tt>line.separator</tt>, and is not necessarily a single
 * newline ('\n') character.
 *
 * @exception IOException If an I/O error occurs
 */

public void newLine() throws IOException {

```

```

    write(lineSeparator);
}

/* Methods that do not terminate lines */

/**
 * Print a boolean value. The string produced by <code>{@link
 * java.lang.String#valueOf(boolean)}</code> is translated into bytes
 * according to the platform's default character encoding, and these bytes
 * are written in exactly the manner of the <code>{@link
 * #write(int)}</code> method.
 *
 * @param    b  The <code>boolean</code> to be printed
 */
public void print(boolean b) throws IOException {
write(b ? "true" : "false");
}

/**
 * Print a character. The character is translated into one or more bytes
 * according to the platform's default character encoding, and these bytes
 * are written in exactly the manner of the <code>{@link
 * #write(int)}</code> method.
 *
 * @param    c  The <code>char</code> to be printed
 */
public void print(char c) throws IOException {
write(String.valueOf(c));
}

/**
 * Print an integer. The string produced by <code>{@link
 * java.lang.String#valueOf(int)}</code> is translated into bytes according
 * to the platform's default character encoding, and these bytes are
 * written in exactly the manner of the <code>{@link #write(int)}</code>
 * method.
 *
 * @param    i  The <code>int</code> to be printed
 */
public void print(int i) throws IOException {
write(String.valueOf(i));
}

/**
 * Print a long integer. The string produced by <code>{@link
 * java.lang.String#valueOf(long)}</code> is translated into bytes
 * according to the platform's default character encoding, and these bytes

```

```

* are written in exactly the manner of the { @link #write(int)}
* method.
*
* @param l The long to be printed
*/
public void print(long l) throws IOException {
write(String.valueOf(l));
}

/**
* Print a floating-point number. The string produced by { @link
* java.lang.String#valueOf(float)} is translated into bytes
* according to the platform's default character encoding, and these bytes
* are written in exactly the manner of the { @link #write(int)}
* method.
*
* @param f The float to be printed
*/
public void print(float f) throws IOException {
write(String.valueOf(f));
}

/**
* Print a double-precision floating-point number. The string produced by
* { @link java.lang.String#valueOf(double)} is translated into
* bytes according to the platform's default character encoding, and these
* bytes are written in exactly the manner of the { @link
* #write(int)} method.
*
* @param d The double to be printed
*/
public void print(double d) throws IOException {
write(String.valueOf(d));
}

/**
* Print an array of characters. The characters are converted into bytes
* according to the platform's default character encoding, and these bytes
* are written in exactly the manner of the { @link #write(int)}
* method.
*
* @param s The array of chars to be printed
*
* @throws NullPointerException If s is null
*/
public void print(char s[]) throws IOException {
write(s);
}

```



```

/**
 * Print a string. If the argument is null then the string
 * "null" is printed. Otherwise, the string's characters are
 * converted into bytes according to the platform's default character
 * encoding, and these bytes are written in exactly the manner of the
 * { @link #write(int)} method.
 *
 * @param s The String to be printed
 */
public void print(String s) throws IOException {
if (s == null) {
    s = "null";
}
write(s);
}

/**
 * Print an object. The string produced by the { @link
 * java.lang.String#valueOf(Object)} method is translated into bytes
 * according to the platform's default character encoding, and these bytes
 * are written in exactly the manner of the { @link #write(int)}
 * method.
 *
 * @param obj The Object to be printed
 */
public void print(Object obj) throws IOException {
write(String.valueOf(obj));
}

/* Methods that do terminate lines */

/**
 * Terminate the current line by writing the line separator string. The
 * line separator string is defined by the system property
 * line.separator, and is not necessarily a single newline
 * character ("\n").
 *
 * Need to change this from PrintWriter because the default
 * println() writes to the sink directly instead of through the
 * write method...
 */
public void println() throws IOException {
newLine();
}

/**
 * Print a boolean value and then terminate the line. This method behaves

```

```

* as though it invokes { @link #print(boolean)} and then
* { @link #println()}.
*/
public void println(boolean x) throws IOException {
    print(x);
    println();
}

/**
 * Print a character and then terminate the line. This method behaves as
 * though it invokes { @link #print(char)} and then { @link
 * #println()}.
 */
public void println(char x) throws IOException {
    print(x);
    println();
}

/**
 * Print an integer and then terminate the line. This method behaves as
 * though it invokes { @link #print(int)} and then { @link
 * #println()}.
 */
public void println(int x) throws IOException {
    print(x);
    println();
}

/**
 * Print a long integer and then terminate the line. This method behaves
 * as though it invokes { @link #print(long)} and then
 * { @link #println()}.
 */
public void println(long x) throws IOException {
    print(x);
    println();
}

/**
 * Print a floating-point number and then terminate the line. This method
 * behaves as though it invokes { @link #print(float)} and then
 * { @link #println()}.
 */
public void println(float x) throws IOException {
    print(x);
    println();
}

```

```

/**
 * Print a double-precision floating-point number and then terminate the
 * line. This method behaves as though it invokes { @link
 * #print(double)} and then { @link #println()}.
 */
public void println(double x) throws IOException {
    print(x);
    println();
}

/**
 * Print an array of characters and then terminate the line. This method
 * behaves as though it invokes { @link #print(char[])} and then
 * { @link #println()}.
 */
public void println(char x[]) throws IOException {
    print(x);
    println();
}

/**
 * Print a String and then terminate the line. This method behaves as
 * though it invokes { @link #print(String)} and then
 * { @link #println()}.
 */
public void println(String x) throws IOException {
    print(x);
    println();
}

/**
 * Print an Object and then terminate the line. This method behaves as
 * though it invokes { @link #print(Object)} and then
 * { @link #println()}.
 */
public void println(Object x) throws IOException {
    print(x);
    println();
}

// START PWC 6512276
public boolean hasData() {
    if (bufferSize != 0 && nextChar != 0) {
        return true;
    }

    return false;
}

```

```

}
// END PWC 6512276
}
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*/

```

```
package org.apache.jasper.runtime;
```

```
/**
```

```
* Implements javax.servlet.jsp.JspApplication
```

```
*/
```

```
import java.util.List;
```

```
import java.util.ArrayList;
```

```
import java.util.Map;
```

```
import java.util.HashMap;
```

```
import java.util.Iterator;
```

```
import java.util.Collections;
```

```
import javax.servlet.ServletContext;
```

```
import javax.servlet.jsp.JspApplicationContext;
```

```
import javax.el.ELException;
```

```
import javax.el.ELResolver;
```

```
import javax.el.ELContext;
```

```
import javax.el.ExpressionFactory;
```

```
import javax.el.ELContextListener;
```

```
import javax.el.ELContextEvent;
```

```
import org.apache.jasper.Constants;
```

```
public class JspApplicationContextImpl implements JspApplicationContext {
```

```
    public JspApplicationContextImpl(ServletContext context) {
```

```
        this.context = context;
```

```
        // Add system defined ELResolver, as defined in JSR 299
```

```
        ELResolver beanManagerELResolver = (ELResolver)
```

```
            context.getAttribute("org.glassfish.jsp.beanManagerELResolver");
```

```
        if (beanManagerELResolver != null) {
```

```
            elResolvers.add(beanManagerELResolver);
```

```

    }
}

public void addELResolver(ELResolver resolver) {
    if ("true".equals(context.getAttribute(Constants.FIRST_REQUEST_SEEN))) {
        throw new IllegalStateException("Attempt to invoke addELResolver "
            + "after the application has already received a request");
    }

    elResolvers.add(0, resolver);
}

public ExpressionFactory getExpressionFactory() {
    if (expressionFactory == null) {
        expressionFactory = ExpressionFactory.newInstance();
    }
    return expressionFactory;
}

public void setExpressionFactory(ExpressionFactory expressionFactory) {
    this.expressionFactory = expressionFactory;
}

public void addELContextListener(ELContextListener listener) {
    listeners.add(listener);
}

protected ELContext createELContext(ELResolver resolver) {

    ELContext elContext = new ELContextImpl(resolver);

    // Notify the listeners
    Iterator<ELContextListener> iter = listeners.iterator();
    while (iter.hasNext()) {
        ELContextListener elcl = iter.next();
        elcl.contextCreated(new ELContextEvent(elContext));
    }
    return elContext;
}

protected static JspApplicationContextImpl findJspApplicationContext(ServletContext context) {

    JspApplicationContextImpl jaContext = map.get(context);
    if (jaContext == null) {
        jaContext = new JspApplicationContextImpl(context);
        map.put(context, jaContext);
    }
    return jaContext;
}

```

```

}

public static void removeJspApplicationContext(ServletContext context) {
    map.remove(context);
}

protected Iterator<ELResolver> getELResolvers() {
    return elResolvers.iterator();
}

private static Map<ServletContext, JspApplicationContextImpl> map =
    Collections.synchronizedMap(
        new HashMap<ServletContext, JspApplicationContextImpl>());

private ArrayList<ELResolver> elResolvers = new ArrayList<ELResolver>();
private ArrayList<ELContextListener> listeners =
    new ArrayList<ELContextListener>();
private ServletContext context;
private ExpressionFactory expressionFactory;
}
/*
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 */

```
package org.apache.jasper.runtime;
```

```
import java.io.CharArrayReader;
import java.io.IOException;
import java.io.PrintWriter;
import java.io.Reader;
import java.io.Writer;
import javax.servlet.ServletResponse;
import javax.servlet.jsp.JspWriter;
import javax.servlet.jsp.tagext.BodyContent;
import org.apache.jasper.Constants;
```

```
/**
```

```
* Write text to a character-output stream, buffering characters so as
* to provide for the efficient writing of single characters, arrays,
* and strings.
*
* Provide support for discarding for the output that has been buffered.
```



```

*
* @author Rajiv Mordani
* @author Jan Luehe
*/
public class BodyContentImpl extends BodyContent {

    private static final String LINE_SEPARATOR = System.getProperty(
        "line.separator");

    private char[] cb;
    private int nextChar;
    private boolean closed;

    // Enclosed writer to which any output is written
    private Writer writer;

    // See comment in setWriter()
    private int bufferSizeSave;

    /**
     * Constructor.
     */
    public BodyContentImpl(JspWriter enclosingWriter) {
        super(enclosingWriter);
        bufferSize = Constants.DEFAULT_TAG_BUFFER_SIZE;
        cb = new char[bufferSize];
        nextChar = 0;
        closed = false;
    }

    /**
     * Write a single character.
     */
    public void write(int c) throws IOException {
        if (writer != null) {
            writer.write(c);
        } else {
            ensureOpen();
            if (nextChar >= bufferSize) {
                reAllocBuff (1);
            }
            cb[nextChar++] = (char) c;
        }
    }

    /**
     * Write a portion of an array of characters.
     */

```

```

* <p> Ordinarily this method stores characters from the given array into
* this stream's buffer, flushing the buffer to the underlying stream as
* needed. If the requested length is at least as large as the buffer,
* however, then this method will flush the buffer and write the characters
* directly to the underlying stream. Thus redundant
* <code>DiscardableBufferedWriter</code>s will not copy data
* unnecessarily.
*
* @param cbuf A character array
* @param off Offset from which to start reading characters
* @param len Number of characters to write
*/
public void write(char[] cbuf, int off, int len) throws IOException {
if (writer != null) {
    writer.write(cbuf, off, len);
} else {
    ensureOpen();

    if ((off < 0) || (off > cbuf.length) || (len < 0) ||
((off + len) > cbuf.length) || ((off + len) < 0)) {
throw new IndexOutOfBoundsException();
    } else if (len == 0) {
return;
    }

    if (len >= bufferSize - nextChar)
reAllocBuff (len);

    System.arraycopy(cbuf, off, cb, nextChar, len);
    nextChar+=len;
}
}

/**
* Write an array of characters. This method cannot be inherited from the
* Writer class because it must suppress I/O exceptions.
*/
public void write(char[] buf) throws IOException {
if (writer != null) {
    writer.write(buf);
} else {
    write(buf, 0, buf.length);
}
}

/**
* Write a portion of a String.
*

```

```

* @param s String to be written
* @param off Offset from which to start reading characters
* @param len Number of characters to be written
*/
public void write(String s, int off, int len) throws IOException {
if (writer != null) {
    writer.write(s, off, len);
} else {
    ensureOpen();
    if (len >= bufferSize - nextChar)
reAllocBuff(len);

    s.getChars(off, off + len, cb, nextChar);
    nextChar += len;
}
}

/**
* Write a string. This method cannot be inherited from the Writer class
* because it must suppress I/O exceptions.
*/
public void write(String s) throws IOException {
if (writer != null) {
    writer.write(s);
} else {
    write(s, 0, s.length());
}
}

/**
* Write a line separator. The line separator string is defined by the
* system property <code>line.separator</code>, and is not necessarily a single
* newline ('\n') character.
*
* @throws IOException If an I/O error occurs
*/
public void newLine() throws IOException {
if (writer != null) {
    writer.write(LINE_SEPARATOR);
} else {
    write(LINE_SEPARATOR);
}
}

/**
* Print a boolean value. The string produced by <code>{@link
* java.lang.String#valueOf(boolean)}</code> is translated into bytes
* according to the platform's default character encoding, and these bytes

```

```

* are written in exactly the manner of the <code>{@link
* #write(int)}</code> method.
*
* @param b The <code>boolean</code> to be printed
* @throws IOException
*/
public void print(boolean b) throws IOException {
if (writer != null) {
    writer.write(b ? "true" : "false");
} else {
    write(b ? "true" : "false");
}
}

/**
* Print a character. The character is translated into one or more bytes
* according to the platform's default character encoding, and these bytes
* are written in exactly the manner of the <code>{@link
* #write(int)}</code> method.
*
* @param c The <code>char</code> to be printed
* @throws IOException
*/
public void print(char c) throws IOException {
if (writer != null) {
    writer.write(String.valueOf(c));
} else {
    write(String.valueOf(c));
}
}

/**
* Print an integer. The string produced by <code>{@link
* java.lang.String#valueOf(int)}</code> is translated into bytes according
* to the platform's default character encoding, and these bytes are
* written in exactly the manner of the <code>{@link #write(int)}</code>
* method.
*
* @param i The <code>int</code> to be printed
* @throws IOException
*/
public void print(int i) throws IOException {
if (writer != null) {
    writer.write(String.valueOf(i));
} else {
    write(String.valueOf(i));
}
}

```

```

/**
 * Print a long integer. The string produced by { @link
 * java.lang.String#valueOf(long)} is translated into bytes
 * according to the platform's default character encoding, and these bytes
 * are written in exactly the manner of the
 * { @link #write(int)} method.
 *
 * @param l The long to be printed
 * @throws IOException
 */
public void print(long l) throws IOException {
if (writer != null) {
    writer.write(String.valueOf(l));
} else {
    write(String.valueOf(l));
}
}

/**
 * Print a floating-point number. The string produced by { @link
 * java.lang.String#valueOf(float)} is translated into bytes
 * according to the platform's default character encoding, and these bytes
 * are written in exactly the manner of the
 * { @link #write(int)} method.
 *
 * @param f The float to be printed
 * @throws IOException
 */
public void print(float f) throws IOException {
if (writer != null) {
    writer.write(String.valueOf(f));
} else {
    write(String.valueOf(f));
}
}

/**
 * Print a double-precision floating-point number. The string produced by
 * { @link java.lang.String#valueOf(double)} is translated into
 * bytes according to the platform's default character encoding, and these
 * bytes are written in exactly the manner of the { @link
 * #write(int)} method.
 *
 * @param d The double to be printed
 * @throws IOException
 */
public void print(double d) throws IOException {

```

```

if (writer != null) {
    writer.write(String.valueOf(d));
} else {
    write(String.valueOf(d));
}
}

/**
 * Print an array of characters. The characters are converted into bytes
 * according to the platform's default character encoding, and these bytes
 * are written in exactly the manner of the
 * <code>{@link #write(int)}</code> method.
 *
 * @param s The array of chars to be printed
 *
 * @throws NullPointerException If <code>s</code> is <code>>null</code>
 * @throws IOException
 */
public void print(char[] s) throws IOException {
if (writer != null) {
    writer.write(s);
} else {
    write(s);
}
}

/**
 * Print a string. If the argument is <code>>null</code> then the string
 * <code>"null"</code> is printed. Otherwise, the string's characters are
 * converted into bytes according to the platform's default character
 * encoding, and these bytes are written in exactly the manner of the
 * <code>{@link #write(int)}</code> method.
 *
 * @param s The <code>String</code> to be printed
 * @throws IOException
 */
public void print(String s) throws IOException {
if (s == null) s = "null";
if (writer != null) {
    writer.write(s);
} else {
    write(s);
}
}

/**
 * Print an object. The string produced by the <code>{@link
 * java.lang.String#valueOf(Object)}</code> method is translated into bytes

```

```

* according to the platform's default character encoding, and these bytes
* are written in exactly the manner of the
* <code>{@link #write(int)}</code> method.
*
* @param obj The <code>Object</code> to be printed
* @throws IOException
*/
public void print(Object obj) throws IOException {
if (writer != null) {
    writer.write(String.valueOf(obj));
} else {
    write(String.valueOf(obj));
}
}

/**
* Terminate the current line by writing the line separator string. The
* line separator string is defined by the system property
* <code>line.separator</code>, and is not necessarily a single newline
* character (<code>'\n'</code>).
*
* @throws IOException
*/
public void println() throws IOException {
newLine();
}

/**
* Print a boolean value and then terminate the line. This method behaves
* as though it invokes <code>{@link #print(boolean)}</code> and then
* <code>{@link #println()}</code>.
*
* @throws IOException
*/
public void println(boolean x) throws IOException {
    print(x);
    println();
}

/**
* Print a character and then terminate the line. This method behaves as
* though it invokes <code>{@link #print(char)}</code> and then
* <code>{@link #println()}</code>.
*
* @throws IOException
*/
public void println(char x) throws IOException {
    print(x);

```

```

    println();
}

/**
 * Print an integer and then terminate the line. This method behaves as
 * though it invokes { @link #print(int)} and then
 * { @link #println()}.
 *
 * @throws IOException
 */
public void println(int x) throws IOException {
    print(x);
    println();
}

/**
 * Print a long integer and then terminate the line. This method behaves
 * as though it invokes { @link #print(long)} and then
 * { @link #println()}.
 *
 * @throws IOException
 */
public void println(long x) throws IOException {
    print(x);
    println();
}

/**
 * Print a floating-point number and then terminate the line. This method
 * behaves as though it invokes { @link #print(float)} and then
 * { @link #println()}.
 *
 * @throws IOException
 */
public void println(float x) throws IOException {
    print(x);
    println();
}

/**
 * Print a double-precision floating-point number and then terminate the
 * line. This method behaves as though it invokes { @link
 * #print(double)} and then { @link #println()}.
 *
 * @throws IOException
 */
public void println(double x) throws IOException{
    print(x);

```



```

    println();
}

/**
 * Print an array of characters and then terminate the line. This method
 * behaves as though it invokes { @link #print(char[])} and
 * then { @link #println()}.
 *
 * @throws IOException
 */
public void println(char x[]) throws IOException {
    print(x);
    println();
}

/**
 * Print a String and then terminate the line. This method behaves as
 * though it invokes { @link #print(String)} and then
 * { @link #println()}.
 *
 * @throws IOException
 */
public void println(String x) throws IOException {
    print(x);
    println();
}

/**
 * Print an Object and then terminate the line. This method behaves as
 * though it invokes { @link #print(Object)} and then
 * { @link #println()}.
 *
 * @throws IOException
 */
public void println(Object x) throws IOException {
    print(x);
    println();
}

/**
 * Clear the contents of the buffer. If the buffer has been already
 * been flushed then the clear operation shall throw an IOException
 * to signal the fact that some data has already been irrevocably
 * written to the client response stream.
 *
 * @throws IOException If an I/O error occurs
 */
public void clear() throws IOException {

```

```

if (writer != null) {
    throw new IOException();
} else {
    nextChar = 0;
}
}

/**
 * Clears the current contents of the buffer. Unlike clear(), this
 * method will not throw an IOException if the buffer has already been
 * flushed. It merely clears the current content of the buffer and
 * returns.
 *
 * @throws IOException If an I/O error occurs
 */
public void clearBuffer() throws IOException {
    if (writer == null) {
        this.clear();
    }
}

/**
 * Close the stream, flushing it first. Once a stream has been closed,
 * further write() or flush() invocations will cause an IOException to be
 * thrown. Closing a previously-closed stream, however, has no effect.
 *
 * @throws IOException If an I/O error occurs
 */
public void close() throws IOException {
    if (writer != null) {
        writer.close();
    } else {
        cb = null;
        closed = true;
    }
}

/**
 * @return the number of bytes unused in the buffer
 */
public int getRemaining() {
    return (writer == null) ? bufferSize - nextChar : 0;
}

/**
 * Return the value of this BodyJspWriter as a Reader.
 * Note: this is after evaluation!! There are no scriptlets,
 * etc in this stream.

```

```

*
* @return the value of this BodyJspWriter as a Reader
*/
public Reader getReader() {
return (writer == null) ? new CharArrayReader (cb, 0, nextChar) : null;
}

/**
* Return the value of the BodyJspWriter as a String.
* Note: this is after evaluation!! There are no scriptlets,
* etc in this stream.
*
* @return the value of the BodyJspWriter as a String
*/
public String getString() {
return (writer == null) ? new String(cb, 0, nextChar) : null;
}

/**
* Write the contents of this BodyJspWriter into a Writer.
* Subclasses are likely to do interesting things with the
* implementation so some things are extra efficient.
*
* @param out The writer into which to place the contents of this body
* evaluation
*/
public void writeOut(Writer out) throws IOException {
if (writer == null) {
out.write(cb, 0, nextChar);
// Flush not called as the writer passed could be a BodyContent and
// it doesn't allow to flush.
}
}

public static void main (String[] args) throws Exception {
char[] buff = {'f','o','o','b','a','f','b','a','z','y'};
BodyContentImpl bodyContent
= new BodyContentImpl(new JspWriterImpl(null, 100, false));
bodyContent.println (buff);
System.out.println (bodyContent.getString ());
bodyContent.writeOut (new PrintWriter (System.out));
}

/**
* Sets the writer to which all output is written.
*/
void setWriter(Writer writer) {
this.writer = writer;
}

```

```

if (writer != null) {
    // According to the spec, the JspWriter returned by
    // JspContext.pushBody(java.io.Writer writer) must behave as
    // though it were unbuffered. This means that its getBufferSize()
    // must always return 0. The implementation of
    // JspWriter.getBufferSize() returns the value of JspWriter's
    // 'bufferSize' field, which is inherited by this class.
    // Therefore, we simply save the current 'bufferSize' (so we can
    // later restore it should this BodyContentImpl ever be reused by
    // a call to PageContext.pushBody()) before setting it to 0.
    if (bufferSize != 0) {
        bufferSizeSave = bufferSize;
        bufferSize = 0;
    }
} else {
    bufferSize = bufferSizeSave;
    clearBody();
}

private void ensureOpen() throws IOException {
if (closed) throw new IOException("Stream closed");
}

/**
 * Reallocates buffer since the spec requires it to be unbounded.
 */
private void reAllocBuff(int len) {

    if (bufferSize + len <= cb.length) {
        bufferSize = cb.length;
        return;
    }

    if (len < cb.length) {
        len = cb.length;
    }

    bufferSize = cb.length + len;
    char[] tmp = new char[bufferSize];

    System.arraycopy(cb, 0, tmp, 0, cb.length);
    cb = tmp;
    tmp = null;

}

```

}

1.507 org.eclipse.core.contenttype

3.4.200.v20120523-2004

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1.508 org.eclipse.core.expressions

3.4.401.v20120627-124442

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1.509 org.eclipse.core.jobs

3.5.300.v20120622-204750

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1.510 org.eclipse.core.runtime

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1.511 org.eclipse.ecf 3.1.300.v20110531-2218

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```
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```

```
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```

```
*
```

```
* Contributors: Composit, Inc. - initial API and implementation
```

```
*****/
```

```
package org.eclipse.ecf.core.security;
```

```
import org.eclipse.ecf.core.IContainer;
```

```
import org.eclipse.ecf.core.identity.ID;
```

```
/**
```

```
* Policy handler for connect initiator (clients).
```

```
*
```

```
*/
```

```
public interface IConnectInitiatorPolicy extends IContainerPolicy {
```

```
/**
```

```
* Create connect data for given IContainer, given targetID and given context
```

```
*
```

```
* @param container the container that is doing the connecting
```

```
* @param targetID the target ID from { @link IContainer#connect(ID, IConnectContext) }
```

```
* @param context from { @link IContainer#connect(ID, IConnectContext) }
```

```
* @return Object that will be used as data for the connect call
```

```
*/
```

```
public Object createConnectData(IContainer container, ID targetID, IConnectContext context);
```

```
/**
```

```
* Get connect timeout (in ms)
```

```
* @return int connect timeout in ms
```

```
*/
```

```
public int getConnectTimeout();
```

```
}
```

```

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 *
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 *****/
package org.eclipse.ecf.core.security;

public interface IContainerPolicy {
/**
 * Refresh the policy
 *
 */
public void refresh();
}
/*****
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 *
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 *****/
package org.eclipse.ecf.core.security;

import java.security.PermissionCollection;
import org.eclipse.ecf.core.identity.ID;

/**
 * Connect policy typically implemented by servers
 *
 */
public interface IConnectHandlerPolicy extends IContainerPolicy {
/**
 * Check connect request
 *
 * @param address
 *         the address for the remote client
 * @param fromID
 *         the ID of the container making the connect request
 * @param targetID
 *         the ID of the container responding to that connect request
 * @param targetGroup
 *         the target name of the group that is being connected to
 * @param connectData
 *         arbitrary data associated with the join request

```

```

* @return PermissionCollection a collection of permissions associated with
*     a successful acceptance of join request
* @throws Exception thrown if connect should not be allowed
*/
public PermissionCollection checkConnect(Object address, ID fromID, ID targetID, String targetGroup, Object
connectData) throws Exception;
}

```

1.512 org.eclipse.ecf.filetransfer

5.0.0.v20110531-2218

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1.513 org.eclipse.ecf.identity

3.1.100.v20110531-2218

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```
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*  
* Contributors: Composit, Inc. - initial API and implementation  
*/  
package org.eclipse.ecf.core.identity;  
  
import java.security.BasicPermission;  
import java.security.Permission;  
  
public class NamespacePermission extends BasicPermission {  
    private static final long serialVersionUID = 3257004371500806969L;  
  
    public static final String ADD_NAMESPACE = "add"; //$NON-NLS-1$  
  
    public static final String ALL_NAMESPACE = "all"; //$NON-NLS-1$
```

```

public static final String CONTAINS_NAMESPACE = "contains"; //$NON-NLS-1$

public static final String GET_NAMESPACE = "get"; //$NON-NLS-1$

public static final String REMOVE_NAMESPACE = "remove"; //$NON-NLS-1$

protected String actions;

public NamespacePermission(String s) {
    super(s);
}

public NamespacePermission(String s, String s1) {
    super(s, s1);
    actions = s1;
}

public String getActions() {
    return actions;
}

public boolean implies(Permission p) {
    if ((p == null) || (p.getClass() != getClass()))
        return false;
    NamespacePermission np = (NamespacePermission) p;
    String act = getActions();
    if (act == null)
        return false;
    if (act.equals(ALL_NAMESPACE) || act.equals(np.getActions()))
        return true;
    return false;
}
}

```

1.514 org.eclipse.ecf.provider.filetransfer

3.2.0.v20110531-2218

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1.515

org.eclipse.ecf.provider.filetransfer.httpclient

4.0.200.v20120319-0616

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1"/>
```

```
<title>About</title>
```

```
</head>
```

```
<body lang="EN-US">
```

```
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```

```
<p>May 14, 2009</p>
```

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 *
 * Contributors:
 *   Comonent, Inc. - initial API and implementation
 *   Henrich Kraemer - Bug 297742 - [transport] Investigate how to maintain HTTP session
 */
package org.eclipse.ecf.provider.filetransfer.httpclient;
```

```
import java.net.MalformedURLException;
import java.net.URL;
import org.apache.commons.httpclient.HttpClient;
import org.eclipse.core.runtime.Assert;
import org.eclipse.ecf.core.identity.IDFactory;
import org.eclipse.ecf.core.identity.Namespace;
import org.eclipse.ecf.core.security.IConnectContext;
import org.eclipse.ecf.core.util.Proxy;
import org.eclipse.ecf.filetransfer.IRemoteFileSystemListener;
import org.eclipse.ecf.filetransfer.IRemoteFileSystemRequest;
import org.eclipse.ecf.filetransfer.RemoteFileSystemException;
import org.eclipse.ecf.filetransfer.identity.IFileID;
import org.eclipse.ecf.filetransfer.service.IRemoteFileSystemBrowser;
import org.eclipse.ecf.filetransfer.service.IRemoteFileSystemBrowserFactory;
import org.eclipse.ecf.provider.filetransfer.identity.FileTransferNamespace;
import org.eclipse.osgi.util.NLS;

public class HttpClientBrowseFileTransferFactory implements IRemoteFileSystemBrowserFactory {

    public IRemoteFileSystemBrowser newInstance() {
        return new IRemoteFileSystemBrowser() {

            private Proxy proxy;
            private IConnectContext connectContext;
```

```

public Namespace getBrowseNamespace() {
    return IDFactory.getDefault().getNamespaceByName(FileTransferNamespace.PROTOCOL);
}

public IRemoteFileSystemRequest sendBrowseRequest(IFileID directoryOrFileId, IRemoteFileSystemListener
listener) throws RemoteFileSystemException {
    Assert.isNotNull(directoryOrFileId);
    Assert.isNotNull(listener);
    URL url;
    try {
        url = directoryOrFileId.getURL();
    } catch (final MalformedURLException e) {
        throw new RemoteFileSystemException(NLS.bind("Exception creating URL for {0}", directoryOrFileId)); //$NON-
NLS-1$
    }

    HttpClientFileSystemBrowser browser = new HttpClientFileSystemBrowser(new HttpClient(), directoryOrFileId,
listener, url, connectContext, proxy);
    return browser.sendBrowseRequest();
}

public void setConnectContextForAuthentication(IConnectContext connectContext) {
    this.connectContext = connectContext;
}

public void setProxy(Proxy proxy) {
    this.proxy = proxy;
}

public Object getAdapter(Class adapter) {
    return null;
}

};

}
}

```

1.516 org.eclipse.equinox.app

1.3.100.v20120522-1841

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1.517 org.eclipse.equinox.common

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1.518 org.eclipse.equinox.concurrent

1.0.300.v20120522-2049

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1.519 org.eclipse.equinox.console

1.0.0.v20120522-1841

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*****/

```
package org.eclipse.equinox.console.common;
```

```
/**
```

```
* This is a helper class, which buffers one line of input. It provides
```

```
* for simple line editing - insertion, deletion, left and right movement, deletion through the
```

```
* backspace key.
```

```
*/
```

```
public class SimpleByteBuffer {
```

```
    private static int INITAL_SIZE = 13;
```

```
    private byte[] buffer;
```

```
    private int pos = 0;
```

```
    private int size = 0;
```

```
    public SimpleByteBuffer() {
```

```
        buffer = new byte[INITAL_SIZE];
```

```
    }
```

```
    public void add(final int b) {
```

```
        if (size >= buffer.length) {
```

```
            rezize();
```

```
        }
```

```
        buffer[size++] = (byte) b;
```

```
    }
```

```
    private void rezize() {
```

```
        final byte[] newbuffer = new byte[buffer.length << 1];
```

```
        System.arraycopy(buffer, 0, newbuffer, 0, buffer.length);
```

```
        buffer = newbuffer;
```

```
    }
```

```
    public void insert(int b) {
```

```
        if (size >= buffer.length) {
```

```
            rezize();
```

```
        }
```

```
        final int forCopy = size - pos;
```

```
        if (forCopy > 0) {
```

```
            System.arraycopy(buffer, pos, buffer, pos + 1, forCopy);
```

```
        }
```

```
        buffer[pos++] = (byte) b;
```

```
        size++;
```

```
    }
```

```

public int goRight() {
    if (pos < size) {
        return buffer[pos++] & 0xFF;
    }
    return -1;
}

public boolean goLeft() {
    if (pos > 0) {
        pos--;
        return true;
    }
    return false;
}

public void delete() {
    if (pos < size) {
        final int forCopy = size - pos;
        System.arraycopy(buffer, pos + 1, buffer, pos, forCopy);
        size--;
    }
}

public boolean backSpace() {
    if (pos > 0 && size > 0) {
        final int forCopy = size - pos;
        System.arraycopy(buffer, pos, buffer, pos - 1, forCopy);
        size--;
        pos--;
        return true;
    }
    return false;
}

public void delAll() {
    pos = 0;
    size = 0;
}

public byte[] getCurrentData() {
    byte[] res = new byte[size];
    System.arraycopy(buffer, 0, res, 0, size);
    pos = 0;
    size = 0;
    return res;
}

public void set(byte[] newData) {

```

```

pos = 0;
size = 0;
if (newData != null) {
    for (byte data : newData) {
        insert(data);
    }
}

public int getPos() {
    return pos;
}

public byte[] copyCurrentData() {
    byte[] res = new byte[size];
    System.arraycopy(buffer, 0, res, 0, size);
    return res;
}

public int getCurrentChar() {
    if (pos < size) {
        return buffer[pos] & 0xFF;
    } else {
        return -1;
    }
}

public int getSize() {
    return size;
}

public int resetPos() {
    int res = pos;
    pos = 0;
    return res;
}

public void replace(int b) {
    if (pos == size) {
        insert(b);
    } else {
        buffer[pos++] = (byte) b;
    }
}
}

```

```

/*****

```

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package org.eclipse.equinox.console.completion.common;

import java.util.Map;

/**
 * This is the interface for providing tab completion.
 */
public interface Completer {
/**
 * Returns the possible candidates for completion for the passed string.
 *
 * @param buffer text to be completed
 * @param cursor current position in the text
 * @return map of candidate completions, and on which position in the buffer starts the completion
 */
public Map<String, Integer> getCandidates(String buffer, int cursor);
}
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package org.eclipse.equinox.console.completion;

import java.io.File;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.HashMap;
import java.util.Map;

import org.eclipse.equinox.console.completion.common.Completer;

/**
 * This class implements completion of file names. It provides completion both for

```

```

* files with absolute filenames, as well as with names, relative to the current
* directory.
*/
public class FileNamesCompleter implements Completer {
    private static final String FILE = "file: ";

    public Map<String, Integer> getCandidates(String buffer, int cursor) {
        Map<String, Integer> result = new HashMap<String, Integer>();
        String currentToken = CommandLineParser.getCurrentToken(buffer, cursor);
        if(currentToken == null || currentToken.equals("")) {
            return new HashMap<String, Integer>();
        }

        // if current token contains file:, then use URL class to parse the filename
        if(currentToken.contains(FILE)) {
            String fileName = currentToken.substring(currentToken.indexOf(FILE));
            try {
                URL url = new URL(fileName);
                String canonicalFileName = url.getPath();
                File file = new File(canonicalFileName);
                File parent = file.getParentFile();

                if ((file.isDirectory() && canonicalFileName.endsWith("/") || parent == null) {
                    // the entered filename is a directory name, ending with file separator character - here
                    // all files in the directory will be returned as completion candidates;
                    // or, if parent is null, the file is in the root directory and
                    // the names of all files in this directory should be used to search for completion candidates
                    return checkChildren(file, "", cursor, false);
                } else {
                    // there is a filename for completion, and the names of all files in the same directory will be used
                    // to search for completion candidates
                    return checkChildren(parent, file.getName(), cursor, false);
                }
            } catch (MalformedURLException e) {
                return result;
            }
        }

        // the file name for completion is only the file separator character, so all files
        // in the current directory will be returned as completion candidates
        if (currentToken.equals("\\") || currentToken.equals("/")) {
            File file = new File(".");
            return checkChildren(file, "", cursor, false);
        }

        // if the current token contains file separator character, then its parent directory can be extracted
        if (currentToken.contains("\\") || currentToken.contains("/")) {
            File file = new File(currentToken);

```

```

File parent = file.getParentFile();
if ((file.isDirectory() && (currentToken.endsWith("/") || currentToken.endsWith("\\\\")))
    || parent == null) {
    // the entered filename is a directory name, ending with file separator character - here
    // all files in the directory will be returned as completion candidates;
    // or, if parent is null, the file is in the root directory and
    // the names of all files in this directory should be used to search for completion candidates
    return checkChildren(file, "", cursor, false);
} else {
    // there is a filename for completion, and the names of all files in the same directory will be used
    // to search for completion candidates
    return checkChildren(parent, file.getName(), cursor, false);
}
}

// if the current token does not contain file separator character,
// then search for candidates in the current directory
return checkChildren(new File("."), currentToken, cursor, false);
}

private Map<String, Integer> checkChildren(File parent, String nameToComplete, int cursor, boolean absolute) {
    Map<String, Integer> result = new HashMap<String, Integer>();
    if(parent.exists()) {
        File[] children = parent.listFiles();
        for(File child : children) {
            if(child.getName().startsWith(nameToComplete)) {
                if(absolute == true) {
                    result.put(child.getAbsolutePath(), cursor - nameToComplete.length());
                } else {
                    result.put(child.getName(), cursor - nameToComplete.length());
                }
            }
        }
    }
    return result;
}

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*****/

```



```

package org.eclipse.equinox.console.completion;

import java.util.HashMap;
import java.util.HashSet;
import java.util.Map;
import java.util.Set;

import org.apache.felix.service.command.CommandSession;
import org.eclipse.equinox.console.completion.common.Completer;

/**
 * This class provides completion for command names.
 */
public class CommandNamesCompleter implements Completer {

    private CommandSession session;
    private static final String COMMANDS = ".commands";

    public CommandNamesCompleter(CommandSession session) {
        this.session = session;
    }

    public Map<String, Integer> getCandidates(String buffer, int cursor) {
        // CommandSession.get(".commands") returns the names of all registered commands
        @SuppressWarnings("unchecked")
        Set<String> commandNames = (Set<String>) session.get(COMMANDS);

        // command names are stored in the session in lower case
        String currentToken = CommandLineParser.getCurrentToken(buffer, cursor).toLowerCase();
        if(currentToken == null || currentToken.equals("")) {
            return new HashMap<String, Integer>();
        }

        if (!currentToken.contains(":")) {
            // the current token does not contain a scope qualifier, so remove scopes from possible candidates
            commandNames = clearScopes(commandNames);
        }
        StringsCompleter completer = new StringsCompleter(commandNames, true);
        return completer.getCandidates(buffer, cursor);
    }

    private Set<String> clearScopes(Set<String> commandNames) {
        Set<String> clearedCommandNames = new HashSet<String>();

        for(String commandName : commandNames) {
            clearedCommandNames.add(commandName.substring(commandName.indexOf(":") + 1));
        }
    }
}

```

```

    return clearedCommandNames;
}
}
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package org.eclipse.equinox.console.completion;

import java.util.Map;
import java.util.Set;

import org.apache.felix.service.command.CommandSession;
import org.eclipse.equinox.console.completion.common.Completer;

/**
 * This class provides completion for gogo session variables.
 */
public class VariableNamesCompleter implements Completer {

    private CommandSession session;

    public VariableNamesCompleter(CommandSession session) {
        this.session = session;
    }

    public Map<String, Integer> getCandidates(String buffer, int cursor) {
        // CommandSession.get(null) returns the names of all registered variables
        @SuppressWarnings("unchecked")
        Set<String> variableNames = (Set<String>) session.get(null);
        StringsCompleter completer = new StringsCompleter(variableNames, false);
        return completer.getCandidates(buffer, cursor);
    }

}

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```

```
package org.eclipse.equinox.console.completion;
```

```
import java.util.HashMap;
import java.util.HashSet;
import java.util.Map;
import java.util.Set;
import java.util.TreeMap;
```

```
import org.apache.felix.service.command.CommandSession;
import org.eclipse.equinox.console.completion.common.Completer;
import org.osgi.framework.BundleContext;
import org.osgi.framework.InvalidSyntaxException;
import org.osgi.framework.ServiceReference;
```

```
/**
```

```

* This class aggregates the different types of completers - variable, command and
* file completers. It also searches for registered custom completers and if available
* uses them too. It call all completers and finally returns the completion candidates
* returned from all of them.

```

```

*
*/

```

```
public class CompletionHandler {
```

```

    private BundleContext context;
    private CommandSession session;
    Set<Completer> completers;
    private static final String FILE = "file";
    private static final char VARIABLE_PREFIX = '$';

```

```

    public CompletionHandler(BundleContext context, CommandSession session) {
        this.context = context;
        this.session = session;
        completers = new HashSet<Completer>();
    }

```

```

    public Map<String, Integer> getCandidates(byte[] buf, int cursor) {
        String currentInput = new String(buf);
        String currentToken = CommandLineParser.getCurrentToken(currentInput, cursor);
        if (currentToken == null){
            return new HashMap<String, Integer>();
        }
    }

```

```

    if (currentToken.contains(FILE) == true) {
        completers.add(new FileNamesCompleter());
    }else{
        if ((cursor - currentToken.length() > 0) && (buf[cursor - currentToken.length() - 1] ==
VARIABLE_PREFIX)){
            completers.add(new VariableNamesCompleter(session));
        }else {
            completers.add(new CommandNamesCompleter(session));
            completers.add(new FileNamesCompleter());
        }
    }
    lookupCustomCompleters();
Map<String, Integer> candidates = new TreeMap<String, Integer>();
for (Completer completer : completers) {
    candidates.putAll(completer.getCandidates(currentInput, cursor));
}

return candidates;
}

@SuppressWarnings("unchecked")
private void lookupCustomCompleters () {
    ServiceReference<Completer>[] completersRefs = null;
    try {
        completersRefs = (ServiceReference<Completer>[]) context.getServiceReferences(Completer.class.getName(),
null);
    } catch (InvalidSyntaxException e) {
        // do nothing
    }

    if (completersRefs != null) {
        for (ServiceReference<Completer> ref : completersRefs) {
            Completer completer = context.getService(ref);
            if (completer != null) {
                completers.add(completer);
            }
        }
    }
}

}

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*

```

```

* Contributors:
*   Lazar Kirchev, SAP AG - initial API and implementation
*****/

package org.eclipse.equinox.console.completion;

import java.util.HashMap;
import java.util.Map;
import java.util.Set;

import org.eclipse.equinox.console.completion.common.Completer;

/**
 * This class provides completion for arbitrary strings
 *
 */
public class StringsCompleter implements Completer {

    private Set<String> strings;
    private boolean isCaseSensitive;

    public StringsCompleter(Set<String> strings, boolean isCaseSensitive) {
        this.strings = strings;
        this.isCaseSensitive = isCaseSensitive;
    }

    public Map<String, Integer> getCandidates(String buffer, int cursor) {
        String currentToken = CommandLineParser.getCurrentToken(buffer, cursor);
        if (currentToken == null) {
            return new HashMap<String, Integer>();
        }
        if (!isCaseSensitive) {
            currentToken = currentToken.toLowerCase();
        }

        int startIndex = cursor - currentToken.length();

        // if currentToken is empty string, then there is nothing to complete
        // the only exception is if the previous character is $, which signifies
        // that a variable name is expected; in this case all strings will be
        // returned as candidates
        if(currentToken.equals("") && buffer.charAt(startIndex - 1) != '$') {
            return new HashMap<String, Integer>();
        }

        Map<String, Integer> result = new HashMap<String, Integer>();

        for(String candidate : strings) {

```

```

if (isCaseSensitive) {
    if (candidate.startsWith(currentToken)) {
        result.put(candidate, startIndex);
    }
} else {
    if (candidate.toLowerCase().startsWith(currentToken)) {
        result.put(candidate, startIndex);
    }
}
}

return result;
}
}

```

1.520 org.eclipse.equinox.ds 1.4.0.v20120522-1841

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1.521 org.eclipse.equinox.frameworkadmin

2.0.100.v20120606-175127

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- *

```

* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.equinox.internal.frameworkadmin.utils;

import java.io.File;
import java.io.IOException;
import java.net.URI;
import java.util.*;
import org.eclipse.equinox.frameworkadmin.BundleInfo;
import org.eclipse.equinox.internal.provisional.frameworkadmin.*;
import org.osgi.framework.Constants;

/**
 * This implementation of BundlesState doesn't support any of
 * - resolving bundles,
 * - retrieving fw persistent data.
 *
 * This implementation can be used for those cases.
 */

public class SimpleBundlesState implements BundlesState {
    public static final BundleInfo[] NULL_BUNDLEINFOS = new BundleInfo[0];

    /**
     * Check if the specified FrameworkAdmin is available.
     *
     * @param fwAdmin
     * @throws FrameworkAdminRuntimeException
     */
    public static void checkAvailability(FrameworkAdmin fwAdmin) throws FrameworkAdminRuntimeException {
        if (!fwAdmin.isActive())
            throw new FrameworkAdminRuntimeException("FrameworkAdmin creates this object is no more available.",
                FrameworkAdminRuntimeException.FRAMEWORKADMIN_UNAVAILABLE);
    }

    /**
     *
     * @param launcherData
     * @return File of fwJar to be used.
     * @throws IOException
     */
    static File getFwJar(LauncherData launcherData) {
        if (launcherData.getFwJar() != null)
            return launcherData.getFwJar();
        return null;
    }
}

```

```

private final String systemBundleSymbolicName;

private final String systemBundleName;

private final String systemBundleVendor;
List bundleInfosList = new LinkedList();

FrameworkAdmin fwAdmin = null;

Manipulator manipulator = null;

/**
 * If the manifest of the target fw implementation has Constants.BUNDLE_SYMBOLICNAME header,
 * this constructor should be used.
 *
 * @param ManipulatorAdmin
 * @param Manipulator
 * @param systemBundleSymbolicName
 */
public SimpleBundlesState(FrameworkAdmin ManipulatorAdmin, Manipulator Manipulator, String
systemBundleSymbolicName) {
    super();
    this.fwAdmin = ManipulatorAdmin;
    // copy Manipulator object for avoiding modifying the parameters of the Manipulator.
    this.manipulator = ManipulatorAdmin.getManipulator();
    this.manipulator.setConfigData(Manipulator.getConfigData());
    this.manipulator.setLauncherData(Manipulator.getLauncherData());
    this.systemBundleSymbolicName = systemBundleSymbolicName;
    this.systemBundleName = null;
    this.systemBundleVendor = null;
    initialize();
}

/**
 * If the manifest of the target fw implementation has not Constants.BUNDLE_SYMBOLICNAME header
 * but , Constants.BUNDLE_NAME and BUNDLE_VERSION,
 * this constructor should be used.
 *
 * @param ManipulatorAdmin
 * @param Manipulator
 * @param systemBundleName
 * @param systemBundleVender
 */
public SimpleBundlesState(FrameworkAdmin ManipulatorAdmin, Manipulator Manipulator, String
systemBundleName, String systemBundleVender) {
    super();
    this.fwAdmin = ManipulatorAdmin;

```

```

// copy Manipulator object for avoiding modifying the parameters of the Manipulator.
this.manipulator = ManipulatorAdmin.getManipulator();
this.manipulator.setConfigData(Manipulator.getConfigData());
this.manipulator.setLauncherData(Manipulator.getLauncherData());
this.systemBundleSymbolicName = null;
this.systemBundleName = systemBundleName;
this.systemBundleVendor = systemBundleVender;
initialize();
}

public BundleInfo[] getExpectedState() throws FrameworkAdminRuntimeException {
    if (!fwAdmin.isActive())
        throw new FrameworkAdminRuntimeException("FrameworkAdmin creates this object is no more available.",
FrameworkAdminRuntimeException.FRAMEWORKADMIN_UNAVAILABLE);
    return Utils.getBundleInfosFromList(this.bundleInfosList);
}

/*
 * Just return required bundles.
 *
 * @see
org.eclipse.equinox.internal.provisional.frameworkadmin.BundlesState#getPrerequisiteBundles(org.eclipse.equinox.i
nternal.provisional.frameworkadmin.BundleInfo)
*/
public BundleInfo[] getPrerequisiteBundles(BundleInfo bInfo) {
    URI location = bInfo.getLocation();
    final String requiredBundles = Utils.getManifestMainAttributes(location, Constants.REQUIRE_BUNDLE);
    if (requiredBundles == null)
        return new BundleInfo[] { this.getSystemBundle() };

    String[] clauses = Utils.getClauses(requiredBundles);
    List list = new LinkedList();
    for (int i = 0; i < clauses.length; i++)
        list.add(Utils.getPathFromClause(clauses[i]));

    List ret = new LinkedList();
    ret.add(this.getSystemBundle());
    for (Iterator ite = this.bundleInfosList.iterator(); ite.hasNext();) {
        BundleInfo currentBInfo = (BundleInfo) ite.next();
        URI currentLocation = currentBInfo.getLocation();
        String currentSymbolicName = Utils.getManifestMainAttributes(currentLocation,
Constants.BUNDLE_SYMBOLICNAME);
        if (currentSymbolicName == null)
            continue;
        currentSymbolicName = Utils.getPathFromClause(currentSymbolicName);
        for (Iterator ite2 = list.iterator(); ite2.hasNext();) {
            String symbolicName = (String) ite2.next();
            if (symbolicName.equals(currentSymbolicName)) {

```

```

        ret.add(currentBInfo);
        break;
    }
}
return Utils.getBundleInfosFromList(ret);
}

public BundleInfo getSystemBundle() {
    if (this.systemBundleSymbolicName == null) {
        for (Iterator ite = this.bundleInfosList.iterator(); ite.hasNext();) {
            BundleInfo bInfo = (BundleInfo) ite.next();
            // if (bInfo.getStartLevel() != 1)
            // return null;;
            URI location = bInfo.getLocation();
            String bundleName = Utils.getManifestMainAttributes(location, Constants.BUNDLE_NAME);
            if (systemBundleName.equals(bundleName)) {
                String bundleVendor = Utils.getManifestMainAttributes(location, Constants.BUNDLE_VENDOR);
                if (systemBundleVendor.equals(bundleVendor))
                    return bInfo;
            }
        }
        return null;
    }
    for (Iterator ite = this.bundleInfosList.iterator(); ite.hasNext();) {
        BundleInfo bInfo = (BundleInfo) ite.next();
        URI location = bInfo.getLocation();
        String symbolicName = Utils.getManifestMainAttributes(location, Constants.BUNDLE_SYMBOLICNAME);
        symbolicName = Utils.getPathFromClause(symbolicName);
        if (this.systemBundleSymbolicName.equals(symbolicName))
            return bInfo;
    }
    return null;
}

public BundleInfo[] getSystemFragmentedBundles() {
    BundleInfo systemBInfo = this.getSystemBundle();
    if (systemBInfo == null)
        return NULL_BUNDLEINFOS;

    List list = new LinkedList();
    for (Iterator ite = this.bundleInfosList.iterator(); ite.hasNext();) {
        BundleInfo bInfo = (BundleInfo) ite.next();
        URI location = bInfo.getLocation();
        String manifestVersion = Utils.getManifestMainAttributes(location, Constants.BUNDLE_MANIFESTVERSION);
        if (manifestVersion == null)
            continue;
        if (manifestVersion.equals("1") || manifestVersion.equals("1.0")) //$NON-NLS-1$//$NON-NLS-2$

```

```

        continue;

String fragmentHost = Utils.getManifestMainAttributes(location, Constants.FRAGMENT_HOST);
if (fragmentHost == null)
    continue;
int index = fragmentHost.indexOf(";"); //$NON-NLS-1$
if (index == -1)
    continue;
String symbolicName = fragmentHost.substring(0, index).trim();
String parameter = fragmentHost.substring(index + 1).trim();
// TODO What to do ,in case of alias name of system bundle is not used ?
if (symbolicName.equals(Constants.SYSTEM_BUNDLE_SYMBOLICNAME))
    if (parameter.equals(Constants.EXTENSION_DIRECTIVE + ":@" + Constants.EXTENSION_FRAMEWORK)) {
//$NON-NLS-1$
        list.add(location);
        break;
    }
}
return Utils.getBundleInfosFromList(list);
}

public String[] getUnsatisfiedConstraints(BundleInfo bInfo) throws FrameworkAdminRuntimeException {
    throw new FrameworkAdminRuntimeException("getUnsatisfiedConstraints(BundleInfo bInfo) is not supported in
this implementation", FrameworkAdminRuntimeException.UNSUPPORTED_OPERATION);
}

private void initialize() {
    this.bundleInfosList.clear();
    LauncherData launcherData = manipulator.getLauncherData();
    ConfigData configData = manipulator.getConfigData();
    File fwJar = getFwJar(launcherData);

    if (fwJar == null)
        throw new IllegalStateException("launcherData.getLauncherConfigFile() == null && fwJar is not set.");
    // No fw persistent data location is taken into consideration.

    BundleInfo[] bInfos = configData.getBundles();
    for (int j = 0; j < bInfos.length; j++)
        this.installBundle(bInfos[j]);

    if (getSystemBundle() == null) {
        BundleInfo sysBInfo = new BundleInfo(launcherData.getFwJar().toURI(), 0, true);
        sysBInfo.setBundleId(0);
        this.installBundle(sysBInfo);
    }
}

public void installBundle(BundleInfo bInfo) throws FrameworkAdminRuntimeException {

```

```

URI newLocation = bInfo.getLocation();
Dictionary newManifest = Utils.getOSGiManifest(newLocation);
if (newManifest == null) {
    // TODO log something here
    return;
}
String newSymbolicName = (String) newManifest.get(Constants.BUNDLE_SYMBOLICNAME);
String newVersion = (String) newManifest.get(Constants.BUNDLE_VERSION);
//System.out.println("> currentInstalledBundles.length=" + currentInstalledBundles.length);
boolean found = false;
for (Iterator ite = this.bundleInfosList.iterator(); ite.hasNext();) {
    BundleInfo currentBInfo = (BundleInfo) ite.next();
    URI location = currentBInfo.getLocation();
    if (newLocation.equals(location)) {
        found = true;
        break;
    }
    Dictionary manifest = Utils.getOSGiManifest(location);
    String symbolicName = (String) manifest.get(Constants.BUNDLE_SYMBOLICNAME);
    String version = (String) manifest.get(Constants.BUNDLE_VERSION);
    if (newSymbolicName != null && newVersion != null)
        if (newSymbolicName.equals(symbolicName) && newVersion.equals(version)) {
            found = true;
            break;
        }
}
if (!found) {
    this.bundleInfosList.add(bInfo);
}
}

// public String toString() {
// if (state == null)
// return null;
// StringBuffer sb = new StringBuffer();
// BundleDescription[] bundleDescriptions = state.getBundles();
// for (int i = 0; i < bundleDescriptions.length; i++) {
// sb.append(bundleDescriptions[i].getBundleId() + ":");
// sb.append(bundleDescriptions[i].toString() + "(");
// sb.append(bundleDescriptions[i].isResolved() + ")");
// String[] ees = bundleDescriptions[i].getExecutionEnvironments();
// for (int j = 0; j < ees.length; j++)
// sb.append(ees[j] + " ");
// sb.append("\n");
// }
// sb.append("PlatformProperties:\n");
// Dictionary[] dics = state.getPlatformProperties();

```



```

// for (int i = 0; i < dics.length; i++) {
//   for (Enumeration enum = dics[i].keys(); enum.hasMoreElements();) {
//     String key = (String) enum.nextElement();
//     String value = (String) dics[i].get(key);
//     sb.append(" (" + key + "," + value + ")\n");
//   }
// }
// sb.append("\n");
// return sb.toString();
// }

public boolean isFullySupported() {
    return false;
}

public boolean isResolved() throws FrameworkAdminRuntimeException {
    throw new FrameworkAdminRuntimeException("isResolved() is not supported in this implementation",
FrameworkAdminRuntimeException.UNSUPPORTED_OPERATION);
}

public boolean isResolved(BundleInfo bInfo) throws FrameworkAdminRuntimeException {
    throw new FrameworkAdminRuntimeException("isResolved(BundleInfo bInfo) is not supported in this
implementation", FrameworkAdminRuntimeException.UNSUPPORTED_OPERATION);
}

public void resolve(boolean increment) throws FrameworkAdminRuntimeException {
    throw new FrameworkAdminRuntimeException("resolve(boolean increment) is not supported in this
implementation", FrameworkAdminRuntimeException.UNSUPPORTED_OPERATION);
}

public void uninstallBundle(BundleInfo bInfo) throws FrameworkAdminRuntimeException {
    URI targetLocation = bInfo.getLocation();
    int index = -1;
    for (Iterator ite = this.bundleInfosList.iterator(); ite.hasNext();) {
        index++;
        BundleInfo currentBInfo = (BundleInfo) ite.next();
        URI location = currentBInfo.getLocation();
        if (targetLocation.equals(location)) {
            break;
        }
    }
    if (index != -1)
        this.bundleInfosList.remove(index);
}
}

```

1.522

org.eclipse.equinox.frameworkadmin.equinox

1.0.400.v20120428-0117

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```
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 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 */
package org.eclipse.equinox.internal.frameworkadmin.equinox;
```

```
import java.io.File;
import java.io.IOException;
import java.util.LinkedList;
import java.util.List;
import org.eclipse.equinox.internal.frameworkadmin.utils.SimpleBundlesState;
import org.eclipse.equinox.internal.frameworkadmin.utils.Utils;
import org.eclipse.equinox.internal.provisional.frameworkadmin.*;
import org.osgi.service.log.LogService;
```

```
public class EclipseLauncherImpl {
    static String getStringOfCmd(String[] cmdarray) {
        StringBuffer sb = new StringBuffer();
        for (int i = 0; i < cmdarray.length; i++) {
            sb.append(cmdarray[i]);
            sb.append(" "); //$NON-NLS-1$
        }
        return sb.toString();
    }
}
```

```
EquinoxFwAdminImpl fwAdmin = null;
```

```
EclipseLauncherImpl(EquinoxFwAdminImpl fwAdmin) {
    this.fwAdmin = fwAdmin;
}
```

```
public Process launch(Manipulator manipulator, File cwd) throws IllegalArgumentException, IOException,
FrameworkAdminRuntimeException {
    SimpleBundlesState.checkAvailability(fwAdmin);
```

```

Log.log(LogService.LOG_DEBUG, this, "launch(Manipulator , File )", ""); //$NON-NLS-1$ //$NON-NLS-2$
LauncherData launcherData = manipulator.getLauncherData();
if (launcherData.getLauncher() == null)
    return launchInMemory(manipulator, cwd);
return launchByLauncher(manipulator, cwd);
}

private Process launchByLauncher(Manipulator manipulator, File cwd) throws IOException {
    LauncherData launcherData = manipulator.getLauncherData();

    if (launcherData.getLauncher() == null)
        throw new IllegalStateException(Messages.exception_launcherLocationNotSet);
    String[] cmdarray = new String[] { launcherData.getLauncher().getAbsolutePath()};
    if (cwd == null)
        cwd = launcherData.getLauncher().getParentFile();
    Process process = Runtime.getRuntime().exec(cmdarray, null, cwd);
    Log.log(LogService.LOG_DEBUG, "\t" + getStringOfCmd(cmdarray)); //$NON-NLS-1$
    return process;
}

private Process launchInMemory(Manipulator manipulator, File cwd) throws IOException {
    LauncherData launcherData = manipulator.getLauncherData();
    Utils.checkAbsoluteFile(launcherData.getFwJar(), "fwJar"); //$NON-NLS-1$
    Utils.checkAbsoluteDir(cwd, "cwd"); //$NON-NLS-1$

    List cmdList = new LinkedList();
    if (launcherData.getJvm() != null)
        cmdList.add(launcherData.getJvm().getAbsolutePath());
    else
        cmdList.add("java"); //$NON-NLS-1$

    if (launcherData.getJvmArgs() != null)
        for (int i = 0; i < launcherData.getJvmArgs().length; i++)
            cmdList.add(launcherData.getJvmArgs()[i]);

    cmdList.add("-jar"); //$NON-NLS-1$
    cmdList.add(Utils.getRelativePath(launcherData.getFwJar(), cwd));

    EquinoxManipulatorImpl.checkConsistencyOfFwConfigLocAndFwPersistentDataLoc(launcherData);
    cmdList.add(EquinoxConstants.OPTION_CONFIGURATION);
    cmdList.add(Utils.getRelativePath(launcherData.getFwPersistentDataLocation(), cwd));

    if (launcherData.isClean())
        cmdList.add(EquinoxConstants.OPTION_CLEAN);

    String[] cmdarray = new String[cmdList.size()];
    cmdList.toArray(cmdarray);
    Log.log(LogService.LOG_DEBUG, "In CWD = " + cwd + "\n\t" + getStringOfCmd(cmdarray)); //$NON-NLS-1$
}

```

```

//NON-NLS-2$
    Process process = Runtime.getRuntime().exec(cmdarray, null, cwd);
    return process;
}
}
/*****
* Copyright (c) 2007, 2010 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.equinox.internal.frameworkadmin.equinox;

import java.io.File;
import java.io.IOException;
import java.net.*;
import java.util.*;
import org.eclipse.core.runtime.*;
import org.eclipse.equinox.frameworkadmin.BundleInfo;
import org.eclipse.equinox.internal.frameworkadmin.utils.SimpleBundlesState;
import org.eclipse.equinox.internal.frameworkadmin.utils.Utils;
import org.eclipse.equinox.internal.provisional.configuratoremanipulator.ConfiguratorManipulator;
import org.eclipse.equinox.internal.provisional.frameworkadmin.*;
import org.eclipse.osgi.service.datalocation.Location;
import org.eclipse.osgi.service.resolver.PlatformAdmin;
import org.eclipse.osgi.util.NLS;
import org.osgi.framework.*;
import org.osgi.service.log.LogService;
import org.osgi.service.startlevel.StartLevel;
import org.osgi.util.tracker.ServiceTracker;

/**
 *
 */
public class EquinoxManipulatorImpl implements Manipulator {
    private static final long DEFAULT_LASTMODIFIED = 0L;
    private static final boolean LOG_ILLEGALSTATEEXCEPTION = false;
    private static final String COMMA = ","; //NON-NLS-1$
    private static final String FILE_PROTOCOL = "file:"; //NON-NLS-1$
    private static final String IGNORED = "ignored"; //NON-NLS-1$

    /**
     * If the fwConfigLocation is a file and its name does not equal "config.ini",
     * throw an IllegalStateException.
    */

```

```

* If the fwConfigLocation is a file and its name equals "config.ini",
* fwConfigLocation will be updated by its parent directory.
*
* Then, reset fwConfigLocation and fwPersistentDataLocation to be matched.
*
* @param launcherData
*/
static void checkConsistencyOfFwConfigLocAndFwPersistentDataLoc(LauncherData launcherData) {
    File fwConfigLocation = launcherData.getFwConfigLocation();
    File fwPersistentDataLocation = launcherData.getFwPersistentDataLocation();

    if (fwConfigLocation != null) {
        if (fwConfigLocation.isFile()) {
            if (fwConfigLocation.getName().equals(EquinoxConstants.CONFIG_INI))
                fwConfigLocation = fwConfigLocation.getParentFile();
            else
                throw new IllegalStateException(NLS.bind(Messages.exception_unexpectedfwConfigLocation,
fwConfigLocation.getAbsolutePath(), EquinoxConstants.CONFIG_INI));
            launcherData.setFwConfigLocation(fwConfigLocation);
        }
        if (fwPersistentDataLocation != null) {
            if (!fwConfigLocation.equals(fwPersistentDataLocation))
                throw new IllegalStateException(NLS.bind(Messages.exception_persistentLocationNotEqualConfigLocation,
fwPersistentDataLocation.getAbsolutePath(), fwConfigLocation.getAbsolutePath()));
        } else
            launcherData.setFwPersistentDataLocation(fwConfigLocation, launcherData.isClean());
        } else {
        if (fwPersistentDataLocation != null) {
            launcherData.setFwConfigLocation(fwPersistentDataLocation);
        } else {
            File home = launcherData.getHome();
            if (home == null)
                throw new IllegalStateException(Messages.exception_noLocations);
            fwConfigLocation = new File(home, "configuration"); //$NON-NLS-1$
            launcherData.setFwPersistentDataLocation(fwConfigLocation, launcherData.isClean());
            launcherData.setFwConfigLocation(fwConfigLocation);
        }
    }
}

//This returns the location of the <eclipse>.ini file
static File getLauncherConfigLocation(LauncherData launcherData) {
    File launcherIni = launcherData.getLauncherConfigLocation();
    if (launcherIni != null)
        return launcherIni;

    File launcher = launcherData.getLauncher();
    if (launcher == null)

```

```

    return null;
    String launcherName = launcher.getName();
    int dotLocation = launcherName.lastIndexOf('.');
    if (dotLocation != -1)
        launcherName = launcherName.substring(0, dotLocation);
    File result = new File(launcher.getParentFile(), launcherName + EquinoxConstants.INI_EXTENSION);
    return result;
}

ConfigData configData = new ConfigData(EquinoxConstants.FW_NAME, EquinoxConstants.FW_VERSION,
EquinoxConstants.LAUNCHER_NAME, EquinoxConstants.LAUNCHER_VERSION);
EquinoxLauncherData launcherData = new EquinoxLauncherData(EquinoxConstants.FW_NAME,
EquinoxConstants.FW_VERSION, EquinoxConstants.LAUNCHER_NAME,
EquinoxConstants.LAUNCHER_VERSION);
BundleContext context = null;
private Properties platformProperties = new Properties();

ServiceTracker cmTracker;
int trackingCount = -1;
private final PlatformAdmin platformAdmin;
private final StartLevel startLevelService;

// private final boolean runtime;

ConfiguratorManipulator configuratorManipulator;

EquinoxFwAdminImpl fwAdmin = null;

EquinoxManipulatorImpl(BundleContext context, EquinoxFwAdminImpl fwAdmin, PlatformAdmin admin,
StartLevel slService, boolean runtime) {
    this.context = context;
    this.fwAdmin = fwAdmin;
    this.platformAdmin = admin;
    this.startLevelService = slService;
    if (context != null) {
        cmTracker = new ServiceTracker(context, ConfiguratorManipulator.class.getName(), null);
        cmTracker.open();
    }
    // this.runtime = runtime;
    if (runtime)
        initializeRuntime();
    // XXX For Equinox, default value of Initial Bundle Start Level is 4.
    // Precisely speaking, it's not correct.
    // Equinox doesn't support setting initial bundle start level as an OSGi terminology.
    // Only bundles installed by config.ini and updateconfigurator will have that start level(4).
    // Others has a start level of 1.
    configData.setInitialBundleStartLevel(4);
}

```

```

public BundleState getBundlesState() throws FrameworkAdminRuntimeException {
    if (context == null)
        return new SimpleBundlesState(fwAdmin, this, EquinoxConstants.FW_SYMBOLIC_NAME);

    if (!EquinoxBundlesState.checkFullySupported())
        return new SimpleBundlesState(fwAdmin, this, EquinoxConstants.FW_SYMBOLIC_NAME);

    if (platformProperties.isEmpty())
        return new EquinoxBundlesState(context, fwAdmin, this, platformAdmin, false);
    // XXX checking if fwDependent or fwIndependent platformProperties are updated after the platformProperties was
    created might be required for better implementation.
    return new EquinoxBundlesState(context, fwAdmin, this, platformAdmin, platformProperties);
}

public ConfigData getConfigData() throws FrameworkAdminRuntimeException {
    return configData;
}

public BundleInfo[] getExpectedState() throws IllegalArgumentException, FrameworkAdminRuntimeException {
    //Log.log(LogService.LOG_DEBUG, this, "getExpectedState()", "BEGIN");
    SimpleBundlesState.checkAvailability(fwAdmin);

    BundleState bundleState = this.getBundlesState();
    if (bundleState instanceof SimpleBundlesState)
        return new BundleInfo[0];
    bundleState.resolve(true);

    return bundleState.getExpectedState();
}

public LauncherData getLauncherData() throws FrameworkAdminRuntimeException {
    return launcherData;
}

/**
 * Return the configuration location.
 *
 * @see Location
 */
private File getRunningConfigurationLocation() {
    ServiceTracker tracker = null;
    Filter filter = null;
    try {
        filter = context.createFilter(Location.CONFIGURATION_FILTER);
    } catch (InvalidSyntaxException e) {
        // ignore this. It should never happen as we have tested the above format.
    }
}

```

```

tracker = new ServiceTracker(context, filter, null);
tracker.open();
Location location = (Location) tracker.getService();
URL url = location.getURL();
if (!url.getProtocol().equals("file")) //$NON-NLS-1$
    return null;
return new File(url.getFile());
}

private File getRunningLauncherFile() {
File launcherFile = null;
String eclipseCommandsSt = context.getProperty(EquinoxConstants.PROP_ECLIPSE_COMMANDS);
if (eclipseCommandsSt == null)
    return null;

StringTokenizer tokenizer = new StringTokenizer(eclipseCommandsSt, "\n"); //$NON-NLS-1$
boolean found = false;
String launcherSt = null;
while (tokenizer.hasMoreTokens()) {
String token = tokenizer.nextToken();
if (found) {
launcherSt = token;
break;
}
if (token.equals("-launcher")) //$NON-NLS-1$
    found = true;
}
if (launcherSt != null)
launcherFile = new File(launcherSt);
return launcherFile;
}

private Properties getRunningPlatformProperties() {
Properties props = new Properties();
for (int i = 0; i < EquinoxBundlesState.PROPS.length; i++) {
String value = context.getProperty(EquinoxBundlesState.PROPS[i]);
if (value != null)
    props.setProperty(EquinoxBundlesState.PROPS[i], value);
}
return props;
}

public long getTimeStamp() {
long ret = this.getTimeStampWithoutFwPersistentData();
if (this.launcherData.isClean())
    return ret;
long lastModifiedFwPersistent =
EquinoxBundlesState.getTimeStamp(launcherData.getFwPersistentDataLocation());
}

```



```

return Math.max(ret, lastModifiedFwPersistent);
}

private long getTimeStampWithoutFwPersistentData() {
SimpleBundlesState.checkAvailability(fwAdmin);
File launcherConfigFile = getLauncherConfigLocation(launcherData);
long lastModifiedLauncherConfigFile = DEFAULT_LASTMODIFIED;
long lastModifiedFwConfigFile = DEFAULT_LASTMODIFIED;
if (launcherConfigFile != null) {
// use launcher. -- > load from LauncherConfig file.
lastModifiedLauncherConfigFile = launcherConfigFile.lastModified();
}
checkConsistencyOfFwConfigLocAndFwPersistentDataLoc(launcherData);

if (launcherData.getFwConfigLocation() != null) {
File fwConfigFile = new File(launcherData.getFwConfigLocation(), EquinoxConstants.CONFIG_INI);
lastModifiedFwConfigFile = fwConfigFile.lastModified();
}
long ret = Math.max(lastModifiedLauncherConfigFile, lastModifiedFwConfigFile);
return ret;
}

public void initialize() {
Log.log(LogService.LOG_DEBUG, this, "initialize()", "BEGIN"); //$NON-NLS-1$ //$NON-NLS-2$
configData.initialize();
launcherData.initialize();
}

private void initializeRuntime() {
//TODO refine the implementation. using some MAGIC dependent on Eclipse.exe and Equinox implementation,
// set parameters according to the current running fw.

// 1. retrieve location data from Location services registered by equinox fw.
String fwJarLocation = context.getProperty(EquinoxConstants.PROP_OSGI_FW);
if (!fwJarLocation.startsWith("file:")) //$NON-NLS-1$
throw new IllegalStateException(NLS.bind(Messages.exception_fileURLExpected,
EquinoxConstants.PROP_OSGI_FW, fwJarLocation));
File fwJar = new File(fwJarLocation.substring("file:".length())); //$NON-NLS-1$
File fwConfigLocation = getRunningConfigurationLocation();
File launcherFile = getRunningLauncherFile();
launcherData.setFwJar(fwJar);
launcherData.setFwPersistentDataLocation(fwConfigLocation, false);
launcherData.setLauncher(launcherFile);
launcherData.setOS(context.getProperty("osgi.os")); //$NON-NLS-1$
try {
this.loadWithoutFwPersistentData();
} catch (IOException e1) {
// TODO Auto-generated catch block

```

```

    e1.printStackTrace();
}
// 2. Create a Manipulator object fully initialized to the current running fw.

ServiceReference reference = context.getServiceReference(StartLevel.class.getName());
StartLevel startLevel = (StartLevel) context.getService(reference);
Bundle[] bundles = context.getBundles();
BundleInfo[] bInfos = new BundleInfo[bundles.length];
for (int i = 0; i < bundles.length; i++) {
    // System.out.println("bundles[" + i + "]=" + bundles[i]);
    try {
        if (bundles[i].getBundleId() == 0) // SystemBundle
            bInfos[i] = new BundleInfo(bundles[i].getSymbolicName(), (String)
bundles[i].getHeaders().get(Constants.BUNDLE_VERSION),
FileLocator.getBundleFile(bundles[i].getAbsoluteFile().toURI(), -1, true);
        else {
            bInfos[i] = new BundleInfo(bundles[i].getSymbolicName(), (String)
bundles[i].getHeaders().get(Constants.BUNDLE_VERSION),
FileLocator.getBundleFile(bundles[i].getAbsoluteFile().toURI(), startLevel.getBundleStartLevel(bundles[i]),
startLevel.isBundlePersistentlyStarted(bundles[i]));
        }
    } catch (IOException e) {
        e.printStackTrace();
    }
}
configData.setBundles(bInfos);
platformProperties = this.getRunningPlatformProperties();

// copy system properties to ConfigData
Properties props = System.getProperties();
for (Enumeration enumeration = props.keys(); enumeration.hasMoreElements();) {
    String key = (String) enumeration.nextElement();
    String value = props.getProperty(key);
    if (toBeEliminated(key))
        continue;
    configData.setProperty(key, value);
}

// update initialBundleStartLevel
int initialBSL = configData.getInitialBundleStartLevel();
if (initialBSL != startLevelService.getInitialBundleStartLevel())
    configData.setInitialBundleStartLevel(startLevelService.getInitialBundleStartLevel());
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.internal.provisional.frameworkadmin.Manipulator#load()
 */
public void load() throws IllegalStateException, IOException, FrameworkAdminRuntimeException {

```

```

Log.log(LogService.LOG_DEBUG, this, "load()", "BEGIN"); //$NON-NLS-1$//$NON-NLS-2$
loadWithoutFwPersistentData();

BundlesState bundlesState = null;
if (EquinoxBundlesState.checkFullySupported()) {
    bundlesState = new EquinoxBundlesState(context, fwAdmin, this, platformAdmin, !launcherData.isClean());
    platformProperties = ((EquinoxBundlesState) bundlesState).getPlatformProperties();
} else {
    bundlesState = new SimpleBundlesState(fwAdmin, this, EquinoxConstants.FW_SYMBOLIC_NAME);
    platformProperties.clear();
}
updateAccordingToExpectedState(bundlesState);
// if (!useConfigurator)
// return;
setConfiguratorManipulator();
if (this.configuratorManipulator == null)
    return;
configuratorManipulator.updateBundles(this);
return;
}

private void loadWithoutFwPersistentData() throws IOException {
    SimpleBundlesState.checkAvailability(fwAdmin);
    File launcherConfigFile = getLauncherConfigLocation(launcherData);
    if (launcherConfigFile != null && !launcherConfigFile.getName().endsWith(IGNORED)) {
        // use launcher. -- > load from LauncherConfig file.
        // the parameters in memory will be updated.
        EclipseLauncherParser parser = new EclipseLauncherParser();
        parser.read(launcherConfigFile, launcherData);
    }
    checkConsistencyOfFwConfigLocAndFwPersistentDataLoc(launcherData);

    File fwConfigFile = new File(launcherData.getFwConfigLocation(), EquinoxConstants.CONFIG_INI);
    EquinoxFwConfigFileParser parser = new EquinoxFwConfigFileParser(context);
    if (fwConfigFile.exists())
        try {
            parser.readFwConfig(this, fwConfigFile);
        } catch (URISyntaxException e) {
            throw new FrameworkAdminRuntimeException(e, NLS.bind(Messages.exception_errorReadingFile,
fwConfigFile.getAbsolutePath()));
        }
}

// Save all parameter in memory into proper config files.
public void save(boolean backup) throws IOException, FrameworkAdminRuntimeException {
    Log.log(LogService.LOG_DEBUG, this, "save()", "BEGIN"); //$NON-NLS-1$//$NON-NLS-2$
    SimpleBundlesState.checkAvailability(fwAdmin);

```

```

try {
    updateAccordingToExpectedState(this.getBundlesState());
} catch (IllegalStateException e) {
    // ignore.
}

boolean stateIsEmpty = configData.getBundles().length == 0;

File launcherConfigFile = getLauncherConfigLocation(launcherData);
if (launcherConfigFile != null) {
    if (!stateIsEmpty) {
        // Use launcher. --> save LauncherConfig file.
        EclipseLauncherParser launcherParser = new EclipseLauncherParser();
        launcherParser.save(launcherData, backup);
    } else {
        // No bundles in configuration, so delete the launcher config file
        launcherConfigFile.delete();
    }
}

checkConsistencyOfFwConfigLocAndFwPersistentDataLoc(launcherData);

ConfiguratorManipulator previousConfigurator = setConfiguratorManipulator();
if (previousConfigurator != null)
    previousConfigurator.cleanup(this);

BundleInfo[] newBInfos = null;
if (configuratorManipulator != null) { // Optimize BundleInfo[]
    try {
        newBInfos = configuratorManipulator.save(this, backup);
    } catch (IllegalStateException e) {
        if (LOG_ILLEGALSTATEEXCEPTION)
            Log.log(LogService.LOG_WARNING, this, "save()", e); //NON-NLS-1$
        newBInfos = configData.getBundles();
    }
} else {
    newBInfos = configData.getBundles();
}

if (!stateIsEmpty) {
    // Save FwConfigFile
    EquinoxFwConfigFileParser parser = new EquinoxFwConfigFileParser(context);
    parser.saveFwConfig(newBInfos.length != 0 ? newBInfos : getConfigData().getBundles(), this, backup, false);
} else {
    File configDir = launcherData.getFwConfigLocation();
    File outputFile = new File(configDir, EquinoxConstants.CONFIG_INI);
    if (outputFile != null && outputFile.exists()) {
        outputFile.delete();
    }
}

```

```

    }
    if (configDir != null && configDir.exists()) {
        configDir.delete();
    }
}

public void setConfigData(ConfigData configData) {
    this.configData.initialize();
    this.configData.setInitialBundleStartLevel(configData.getInitialBundleStartLevel());
    this.configData.setBeginningFwStartLevel(configData.getBeginningFwStartLevel());
    BundleInfo[] bInfos = configData.getBundles();
    for (int i = 0; i < bInfos.length; i++)
        this.configData.addBundle(bInfos[i]);
    this.configData.setProperties(configData.getProperties());
    if (this.configData.getFwName().equals(configData.getFwName()))
        if (this.configData.getFwVersion().equals(configData.getFwVersion())) {
            // TODO refine the algorithm to copying fw dependent props.
            // configData.getFwName()/getFwVersion()/
            // getLauncherName()/getLauncherVersion() might be taken into consideration.
            this.configData.setProperties(configData.getProperties());
        }
}

/**
 * 1. get all ServiceReferences of ConfiguratorManipulator.
 * 2. Check if there any ConfiguratorBundle in the Bundles list that can be manipulated by
 * the available ConfiguratorManipulators.
 * 3. Choose the one that will be firstly started among them.
 * 4. set the object that corresponds to the chosen ConfiguratorBundle.
 */
private ConfiguratorManipulator setConfiguratorManipulator() {
    if (context == null) {
        this.configuratorManipulator = this.fwAdmin.getConfiguratorManipulator();
        return null;
    }
    ServiceReference[] references = cmTracker.getServiceReferences();
    if (references == null)
        return null;

    // int count = cmTracker.getTrackingCount();
    // if (count == this.trackingCount)
    // return;
    // this.trackingCount = count;

    BundleInfo[] bInfos = configData.getBundles();
    int initialBSL = configData.getInitialBundleStartLevel();

```

```

bInfos = Utils.sortBundleInfos(bInfos, initialBSL);
//int index = -1;
ConfiguratorManipulator previousConfiguratorManipulator = configuratorManipulator;
configuratorManipulator = null;
for (int i = 0; i < bInfos.length; i++) {
    URI location = bInfos[i].getLocation();
    if (!bInfos[i].isMarkedAsStarted())
        continue;
    for (int j = 0; j < references.length; j++)
        if
(references[j].getProperty(ConfiguratorManipulator.SERVICE_PROP_KEY_CONFIGURATOR_BUNDLESYMBOLICNAME).equals(Utils.getPathFromClause(Utils.getManifestMainAttributes(location, Constants.BUNDLE_SYMBOLICNAME)))) {
            configuratorManipulator = (ConfiguratorManipulator) cmTracker.getService(references[j]);
            break;
        }
    if (configuratorManipulator != null)
        break;
}
if (configuratorManipulator != previousConfiguratorManipulator)
    return previousConfiguratorManipulator;
return null;
}

public void setLauncherData(LauncherData value) {
    launcherData.initialize();
    launcherData.setFwConfigLocation(value.getFwConfigLocation());
    launcherData.setFwPersistentDataLocation(value.getFwPersistentDataLocation(), value.isClean());
    launcherData.setJvm(value.getJvm());
    launcherData.setJvmArgs(value.getJvmArgs());
    launcherData.setOS(value.getOS());
    if (launcherData.getFwName().equals(value.getFwName()))
        if (launcherData.getFwVersion().equals(value.getFwVersion())) {
            // TODO launcherData.getFwName()/getFwVersion()/
            // getLauncherName()/getLauncherVersion() might be taken into consideration
            // for copying .
            launcherData.setFwJar(value.getFwJar());
            launcherData.setHome(value.getHome());
            launcherData.setLauncher(value.getLauncher());
            launcherData.setLauncherConfigLocation(value.getLauncherConfigLocation());
        }
}

/**
 * Temporal implementation.
 *
 * If a property of the given key should be eliminated
 * from FwDependentProperties and FwIndependentProperties,

```

```

* return true. Otherwise false.
*
* @param key
* @return true if it should be eliminated from FwDependentProperties and FwIndependentProperties,
*/
private boolean toBeEliminated(String key) {
    if (key.startsWith("java.")) //$NON-NLS-1$
        return true;
    return false;
}

public String toString() {
    StringBuffer sb = new StringBuffer();
    sb.append("++++++\n" + "Class:" + this.getClass().getName() +
"\n"); //$NON-NLS-1$ //$NON-NLS-2$ //$NON-NLS-3$
    sb.append("----- LauncherData -----\n"); //$NON-NLS-1$
    sb.append(launcherData.toString());
    sb.append("----- ConfigData -----\n"); //$NON-NLS-1$
    sb.append(configData.toString());
    sb.append("\n" + Utils.toStringProperties("platformProperties", this.platformProperties)); //$NON-NLS-1$ //$NON-NLS-2$
    sb.append("++++++\n"); //$NON-NLS-1$
    return sb.toString();
}

private void updateAccordingToExpectedState(BundlesState bundlesState) {
    // File newFwJar = EquinoxBundlesState.getFwJar(launcherData, configData);
    // if (bundlesState instanceof EquinoxBundlesState)
    // ((EquinoxBundlesState) bundlesState).setFwJar(newFwJar);
    //
    // if (launcherData.getFwJar() == null && newFwJar != null)
    // launcherData.setFwJar(newFwJar);
    BundleInfo[] newBundleInfos = bundlesState.getExpectedState();
    configData.setBundles(newBundleInfos);
}

public static String makeRelative(String original, String rootPath) {
    IPath path = new Path(original);
    // ensure we have an absolute path to start with
    if (!path.isAbsolute())
        return original;

    //Returns the original string if no relativization has been done
    IPath result = path.makeRelativeTo(new Path(rootPath));
    return path.equals(result) ? original : result.toString();
}

public static String makeRelative(String urlString, URL rootURL) {

```

```

// we only traffic in file: URLs
int index = urlString.indexOf(FILE_PROTOCOL);
if (index == -1)
    return urlString;
index = index + 5;

// ensure we have an absolute path to start with
boolean done = false;
URL url = null;
String file = urlString;
while (!done) {
    try {
        url = new URL(file);
        file = url.getFile();
    } catch (java.net.MalformedURLException e) {
        done = true;
    }
}
if (url == null || !new File(url.getFile()).isAbsolute())
    return urlString;

String rootString = rootURL.toExternalForm();
IPath one = new Path(urlString.substring(index));
IPath two = new Path(rootString.substring(rootString.indexOf(FILE_PROTOCOL) + 5));
String deviceOne = one.getDevice();
String deviceTwo = two.getDevice();
// do checking here because we want to return the exact string we got initially if
// we are unable to make it relative.
if (deviceOne != deviceTwo && (deviceOne == null || !deviceOne.equalsIgnoreCase(two.getDevice())))
    return urlString;

return urlString.substring(0, index) + one.makeRelativeTo(two);
}

public static String makeArrayRelative(String array, URL rootURL) {
    StringBuffer buffer = new StringBuffer();
    for (StringTokenizer tokenizer = new StringTokenizer(array, COMMA); tokenizer.hasMoreTokens(); ) {
        String token = tokenizer.nextToken();
        String absolute = makeRelative(token, rootURL);
        buffer.append(absolute);
        if (tokenizer.hasMoreTokens())
            buffer.append(',');
    }
    return buffer.toString();
}

public static String makeArrayAbsolute(String array, URL rootURL) {
    StringBuffer buffer = new StringBuffer();

```



```

for (StringTokenizer tokenizer = new StringTokenizer(array, COMMA); tokenizer.hasMoreTokens();) {
    String token = tokenizer.nextToken();
    String absolute = makeAbsolute(token, rootURL);
    buffer.append(absolute);
    if (tokenizer.hasMoreTokens())
        buffer.append(',');
}
return buffer.toString();
}

/*
 * Make the given path absolute to the specified root, if applicable. If not, then
 * return the path as-is.
 *
 * TODO: can we use URIUtil in these #make* methods?
 */
public static String makeAbsolute(String original, String rootPath) {
    IPath path = new Path(original);
    // ensure we have a relative path to start with
    if (path.isAbsolute())
        return original;
    IPath root = new Path(rootPath);
    return root.addTrailingSeparator().append(original.replace(':', ' ')).toOSSString().replace(' ', ':');
}

public static String makeAbsolute(String urlString, URL rootURL) {
    // we only traffic in file: URLs
    int index = urlString.indexOf(FILE_PROTOCOL);
    if (index == -1)
        return urlString;
    index = index + 5;

    // ensure we have a relative path to start with
    boolean done = false;
    URL url = null;
    String file = urlString;
    while (!done) {
        try {
            url = new URL(file);
            file = url.getFile();
        } catch (java.net.MalformedURLException e) {
            done = true;
        }
    }
    if (url == null || new File(url.getFile()).isAbsolute())
        return urlString;

    return urlString.substring(0, index - 5) + makeAbsolute(urlString.substring(index), rootURL.toExternalForm());
}

```

```

}
}
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*****/
package org.eclipse.equinox.internal.frameworkadmin.equinox;

import java.io.File;
import java.io.IOException;
import java.util.Dictionary;
import org.eclipse.equinox.internal.provisional.configuratoremanipulator.ConfiguratorManipulator;
import org.eclipse.equinox.internal.provisional.configuratoremanipulator.ConfiguratorManipulatorFactory;
import org.eclipse.equinox.internal.provisional.frameworkadmin.*;
import org.eclipse.osgi.service.resolver.PlatformAdmin;
import org.osgi.framework.*;
import org.osgi.service.startlevel.StartLevel;

public class EquinoxFwAdminImpl implements FrameworkAdmin {

    boolean active = false;

    private ConfiguratorManipulator configuratorManipulator = null;

    BundleContext context = null;

    private boolean runningFw = false;

    private PlatformAdmin platformAdmin;
    private StartLevel startLevelService;

    public EquinoxFwAdminImpl() {
        this(null, false);
    }

    // private String configuratorManipulatorFactoryName = null;

    EquinoxFwAdminImpl(BundleContext context) {
        this(context, false);
    }

    EquinoxFwAdminImpl(BundleContext context, boolean runningFw) {

```

```

    this.context = context;
    this.active = true;
    this.runningFw = runningFw;
}

EquinoxFwAdminImpl(String configuratorManipulatorFactoryName) throws InstantiationException,
IllegalAccessException, ClassNotFoundException {
    this.context = null;
    this.active = true;
    this.runningFw = false;
    // this.configuratorManipulatorFactoryName = configuratorManipulatorFactoryName;
    loadConfiguratorManipulator(configuratorManipulatorFactoryName);
}

/**
 * DS component activator
 * @param aContext The bundle context
 */
public void activate(BundleContext aContext) {
    this.context = aContext;
    this.runningFw = isRunningFw();
    Log.init(aContext);
}

void deactivate() {
    active = false;
    Log.dispose();
}

public ConfiguratorManipulator getConfiguratorManipulator() {
    return configuratorManipulator;
}

public Manipulator getManipulator() {
    return new EquinoxManipulatorImpl(context, this, platformAdmin, startLevelService, false);
}

public Manipulator getRunningManipulator() {
    if (!this.runningFw)
        return null;
    return new EquinoxManipulatorImpl(context, this, platformAdmin, startLevelService, true);
}

public boolean isActive() {
    return active;
}

/**

```

```

* If both the vendor and the Bundle-Version in the manifest match,
* return true. Otherwise false.
*
* @return flag true if the ManipulatorAdmin object can handle currently running fw launch.
*/
boolean isRunningFw() {
//TODO implementation for Eclipse.exe and for Equinox
String fwVendor = context.getProperty(Constants.FRAMEWORK_VENDOR);
if (!"Eclipse".equals(fwVendor)) //$NON-NLS-1$
return false;
//TODO decide if this version can be supported by this bundle.
Dictionary header = context.getBundle(0).getHeaders();
String versionSt = (String) header.get(Constants.BUNDLE_VERSION);
Version version = new Version(versionSt);
int value = version.compareTo(new Version(EquinoxConstants.FW_VERSION));
if (value > 0) {
return true;
}
// TODO need to identify the version of eclipse.exe used for this launch, if used.
return false;
}

public Process launch(Manipulator manipulator, File cwd) throws IllegalArgumentException,
FrameworkAdminRuntimeException, IOException {
//return new EclipseLauncherImpl(context, this).launch(manipulator, cwd);
return new EclipseLauncherImpl(this).launch(manipulator, cwd);
}

private void loadConfiguratorManipulator(String configuratorManipulatorFactoryName) throws
InstantiationException, IllegalAccessException, ClassNotFoundException {
if (configuratorManipulatorFactoryName == null)
this.configuratorManipulator = null;
else
this.configuratorManipulator =
ConfiguratorManipulatorFactory.getInstance(configuratorManipulatorFactoryName);
return;
}

public void setPlatformAdmin(PlatformAdmin admin) {
this.platformAdmin = admin;
}

public void setStartLevel(StartLevel sl) {
this.startLevelService = sl;
}
}

```

```

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*****/
package org.eclipse.equinox.internal.frameworkadmin.equinox;

```

```

import org.eclipse.equinox.internal.provisional.configuratoremanipulator.ConfiguratorManipulatorFactory;
import org.eclipse.equinox.internal.provisional.frameworkadmin.FrameworkAdmin;
import org.eclipse.equinox.internal.provisional.frameworkadmin.FrameworkAdminFactory;

```

```

public class EquinoxFrameworkAdminFactoryImpl extends FrameworkAdminFactory {
    public FrameworkAdmin createFrameworkAdmin() throws InstantiationException, IllegalAccessException,
    ClassNotFoundException {
        String className = System.getProperty(ConfiguratorManipulatorFactory.SYSTEM_PROPERTY_KEY);
        if (className == null)
            return new EquinoxFwAdminImpl();
        return new EquinoxFwAdminImpl(className);
    }
}

```

1.523 org.eclipse.equinox.http.helper

1.1.0.wso2v1

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1.524 org.eclipse.equinox.http.servlet

1.1.300.v20120522-1841

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```
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 */
package org.eclipse.equinox.http.servlet.internal;

import java.util.*;
import javax.servlet.*;

public class FilterConfigImpl implements FilterConfig {

    private static final Dictionary EMPTY_PARAMS = new Hashtable(0);
    private static final String FILTER_NAME = "filter-name"; //$NON-NLS-1$
    private Filter filter;
    private Dictionary initparams;
    private ServletContext servletContext;

    public FilterConfigImpl(Filter filter, Dictionary initparams, ServletContext servletContext) {
        this.filter = filter;
        this.initparams = (initparams != null) ? initparams : EMPTY_PARAMS;
        this.servletContext = servletContext;
    }

    /**
     * @see javax.servlet.FilterConfig#getFilterName()
     *
     * The OSGi Http Service does not specify a way to set a filter name at the API level. This
     * implementation will try to use the value of the "filter-name" initial parameter if available.
     */
    public String getFilterName() {
        String filterName = (String) initparams.get(FILTER_NAME);
        return (filterName != null) ? filterName : filter.getClass().getName();
    }

    public ServletContext getServletContext() {
        return servletContext;
    }

    public String getInitParameter(String name) {
        return (String) initparams.get(name);
    }
}
```

```

public Enumeration getInitParameterNames() {
    return initparams.keys();
}
}
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*****/
package org.eclipse.equinox.http.servlet.internal;

import java.io.IOException;
import java.util.List;
import javax.servlet.*;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class FilterChainImpl implements FilterChain {

    private List matchingFilterRegistrations;
    private ServletRegistration registration;
    private int filterIndex = 0;
    private int filterCount;

    public FilterChainImpl(List matchingFilterRegistrations, ServletRegistration registration) {
        this.matchingFilterRegistrations = matchingFilterRegistrations;
        this.registration = registration;
        this.filterCount = matchingFilterRegistrations.size();
    }

    public void doFilter(ServletRequest request, ServletResponse response) throws IOException, ServletException {
        if (filterIndex < filterCount) {
            FilterRegistration filterRegistration = (FilterRegistration) matchingFilterRegistrations.get(filterIndex++);
            filterRegistration.doFilter((HttpServletRequest) request, (HttpServletResponse) response, this);
            return;
        }
        registration.service((HttpServletRequest) request, (HttpServletResponse) response);
    }
}
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*****/
package org.eclipse.equinox.http.servlet.internal;

import java.util.*;
import javax.servlet.*;

public class ServletConfigImpl implements ServletConfig {

    private static final Dictionary EMPTY_PARAMS = new Hashtable(0);
    private static final String SERVLET_NAME = "servlet-name"; //$NON-NLS-1$
    private Servlet servlet;
    private Dictionary initparams;
    private ServletContext servletContext;

    public ServletConfigImpl(Servlet servlet, Dictionary initparams, ServletContext servletContext) {
        this.servlet = servlet;
        this.initparams = (initparams != null) ? initparams : EMPTY_PARAMS;
        this.servletContext = servletContext;
    }

    /*
    * @see javax.servlet.ServletConfig#getServletName()
    *
    * The OSGi Http Service does not specify a way to set a servlet name at the API level. This
    * implementation will try to use the value of the "servlet-name" initial parameter if available.
    */
    public String getServletName() {
        String servletName = (String) initparams.get(SERVLET_NAME);
        return (servletName != null) ? servletName : servlet.getClass().getName();
    }

    public ServletContext getServletContext() {
        return servletContext;
    }

    public String getInitParameter(String name) {
        return (String) initparams.get(name);
    }

    public Enumeration getInitParameterNames() {
        return initparams.keys();
    }

```

```

}
}
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*
* Contributors:
*   Cognos Incorporated - initial API and implementation
*   IBM Corporation - bug fixes and enhancements
*****/

package org.eclipse.equinox.http.servlet.internal;

import java.util.*;
import javax.servlet.*;
import org.eclipse.equinox.http.servlet.ExtendedHttpService;
import org.osgi.framework.Bundle;
import org.osgi.service.http.*;

public class HttpServiceImpl implements HttpService, ExtendedHttpService {

    private Bundle bundle; //The bundle associated with this instance of http service

    private ProxyServlet proxy; //The proxy that does the dispatching of the incoming requests

    private Set aliases = new HashSet(); //Aliases registered against this particular instance of the service
    private Set filters = new HashSet(); //Filters registered against this particular instance of the service

    private boolean shutdown = false; // We prevent use of this instance if HttpServiceFactory.ungetService has called
    unregisterAliases.

    public HttpServiceImpl(Bundle bundle, ProxyServlet proxy) {
        this.bundle = bundle;
        this.proxy = proxy;
    }

    //Clean up method
    synchronized void shutdown() {
        for (Iterator it = aliases.iterator(); it.hasNext();) {
            String alias = (String) it.next();
            proxy.unregister(alias, false);
        }
        aliases.clear();

        for (Iterator it = filters.iterator(); it.hasNext();) {

```

```

    Filter filter = (Filter) it.next();
    proxy.unregisterFilter(filter, false);
}
filters.clear();
shutdown = true;
}

private void checkShutdown() {
    if (shutdown)
        throw new IllegalStateException("Service instance is already shutdown"); //$NON-NLS-1$
}

/**
 * @see HttpService#registerServlet(String, Servlet, Dictionary, HttpContext)
 */
public synchronized void registerServlet(String alias, Servlet servlet, Dictionary initparams, HttpContext context)
throws ServletException, NamespaceException {
    checkShutdown();
    if (context == null) {
        context = createDefaultHttpContext();
    }
    proxy.registerServlet(alias, servlet, initparams, context);
    aliases.add(alias);
}

/**
 * @see HttpService#registerResources(String, String, HttpContext)
 */
public synchronized void registerResources(String alias, String name, HttpContext context) throws
NamespaceException {
    checkShutdown();
    if (context == null) {
        context = createDefaultHttpContext();
    }
    proxy.registerResources(alias, name, context);
    aliases.add(alias);
}

/**
 * @see HttpService#unregister(String)
 */
public synchronized void unregister(String alias) {
    checkShutdown();
    if (aliases.remove(alias)) {
        proxy.unregister(alias, true);
    } else {
        throw new IllegalArgumentException("Alias not found: " + alias); //$NON-NLS-1$
    }
}

```

```

}

/**
 * @see HttpService#createDefaultHttpContext()
 */
public synchronized HttpContext createDefaultHttpContext() {
    checkShutdown();
    return new DefaultHttpContext(bundle);
}

public void registerFilter(String alias, Filter filter, Dictionary initparams, HttpContext context) throws
ServletException {
    checkShutdown();
    if (context == null) {
        context = createDefaultHttpContext();
    }
    proxy.registerFilter(alias, filter, initparams, context);
    filters.add(filter);
}

public void unregisterFilter(Filter filter) {
    checkShutdown();
    if (filters.remove(filter)) {
        proxy.unregisterFilter(filter, true);
    } else {
        throw new IllegalArgumentException("Filter not found."); //$NON-NLS-1$
    }
}
}

```

1.525 org.eclipse.equinox.jsp.jasper

1.0.400.v20120522-2049

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1.526 org.eclipse.equinox.launcher

1.3.0.v20120522-1813

1.526.1 Available under license :

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1.527

org.eclipse.equinox.p2.artifact.repository

1.1.100.v20110519

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```
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 * which accompanies this distribution, and is available at  
 * http://www.eclipse.org/legal/epl-v10.html  
 *  
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 *   IBM Corporation - initial API and implementation  
 */  
package org.eclipse.equinox.internal.p2.artifact.repository.simple;  
  
import java.util.Map;  
import org.eclipse.equinox.internal.p2.core.helpers.OrderedProperties;  
import org.eclipse.equinox.p2.metadata.IArtifactKey;  
import org.eclipse.equinox.p2.repository.artifact.IArtifactDescriptor;  
import org.eclipse.equinox.p2.repository.artifact.spi.ArtifactDescriptor;  
  
public class SimpleArtifactDescriptor extends ArtifactDescriptor {  
    public static final String ARTIFACT_REFERENCE = "artifact.reference"; //$NON-NLS-1$  
  
    protected Map<String, String> repositoryProperties = new OrderedProperties();  
  
    public SimpleArtifactDescriptor(IArtifactKey key) {  
        super(key);  
    }  
  
    public SimpleArtifactDescriptor(IArtifactDescriptor base) {  
        super(base);  
    }  
}
```

```

public String getRepositoryProperty(String propertyKey) {
    return repositoryProperties.get(propertyKey);
}

public void setRepositoryProperty(String key, String value) {
    if (value == null)
        repositoryProperties.remove(key);
    else
        repositoryProperties.put(key, value);
}

public void addRepositoryProperties(Map<String, String> additionalProperties) {
    repositoryProperties.putAll(additionalProperties);
}

/**
 * Returns a read-only collection of the repository properties of the artifact descriptor.
 * @return the repository properties of this artifact descriptor.
 */
public Map<String, String> getRepositoryProperties() {
    return OrderedProperties.unmodifiableProperties(repositoryProperties);
}

public boolean equals(Object obj) {
    if (this == obj)
        return true;
    if (obj == null || !(obj instanceof SimpleArtifactDescriptor))
        return false;

    SimpleArtifactDescriptor other = (SimpleArtifactDescriptor) obj;

    //Properties affecting SimpleArtifactRepository#getLocation
    String locationProperty = getRepositoryProperty(ARTIFACT_REFERENCE);
    String otherProperty = other.getRepositoryProperty(ARTIFACT_REFERENCE);
    // want not null and the same, or both null
    if (locationProperty != null ? !locationProperty.equals(otherProperty) : otherProperty != null)
        return false;

    return super.equals(obj);
}

public int hashCode() {
    int superHash = super.hashCode();
    String ref = getRepositoryProperty(ARTIFACT_REFERENCE);
    if (ref != null)
        return 31 * superHash + ref.hashCode();
    return superHash;
}

```

```

}
/*****
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* Genuitec, LLC - support for multi-threaded downloads
* Cloudsmith Inc. - query indexes
* Sonatype Inc - ongoing development
* EclipseSource - file locking and ongoing development
*****/
package org.eclipse.equinox.internal.p2.artifact.repository.simple;

import java.io.*;
import java.net.URI;
import java.net.URISyntaxException;
import java.util.*;
import java.util.Map.Entry;
import java.util.jar.JarEntry;
import java.util.jar.JarOutputStream;
import org.eclipse.core.runtime.*;
import org.eclipse.core.runtime.jobs.Job;
import org.eclipse.equinox.internal.p2.artifact.processors.md5.MD5Verifier;
import org.eclipse.equinox.internal.p2.artifact.repository.*;
import org.eclipse.equinox.internal.p2.artifact.repository.Messages;
import org.eclipse.equinox.internal.p2.core.helpers.FileUtils;
import org.eclipse.equinox.internal.p2.metadata.ArtifactKey;
import org.eclipse.equinox.internal.p2.metadata.expression.CompoundIterator;
import org.eclipse.equinox.internal.p2.metadata.index.IndexProvider;
import org.eclipse.equinox.internal.p2.repository.Transport;
import org.eclipse.equinox.internal.provisional.p2.artifact.repository.processing.*;
import org.eclipse.equinox.internal.provisional.p2.repository.IStateful;
import org.eclipse.equinox.p2.core.IProvisioningAgent;
import org.eclipse.equinox.p2.core.ProvisionException;
import org.eclipse.equinox.p2.metadata.IArtifactKey;
import org.eclipse.equinox.p2.metadata.index.IIndex;
import org.eclipse.equinox.p2.metadata.index.IIndexProvider;
import org.eclipse.equinox.p2.query.*;
import org.eclipse.equinox.p2.repository.*;
import org.eclipse.equinox.p2.repository.artifact.*;
import org.eclipse.equinox.p2.repository.artifact.spi.AbstractArtifactRepository;
import org.eclipse.equinox.p2.repository.artifact.spi.ArtifactDescriptor;
import org.eclipse.osgi.service.datalocation.Location;
import org.eclipse.osgi.util.NLS;

```

```

public class SimpleArtifactRepository extends AbstractArtifactRepository implements IFileArtifactRepository,
IIndexProvider<IArtifactKey> {
/**
 * A boolean property controlling whether mirroring is enabled.
 */
public static final boolean MIRRORS_ENABLED =
!"false".equals(Activator.getContext().getProperty("eclipse.p2.mirrors")); //$NON-NLS-1$//$NON-NLS-2$

public static final boolean MD5_CHECK_ENABLED =
!"false".equals(Activator.getContext().getProperty("eclipse.p2.MD5Check")); //$NON-NLS-1$//$NON-NLS-2$

public static final String CONTENT_FILENAME = "artifacts"; //$NON-NLS-1$

/**
 * The key for a integer property controls the maximum number
 * of threads that should be used when optimizing downloads from a remote
 * artifact repository.
 */
public static final String PROP_MAX_THREADS = "eclipse.p2.max.threads"; //$NON-NLS-1$

/**
 * Allows override of whether threading should be used.
 */
public static final String PROP_FORCE_THREADING = "eclipse.p2.force.threading"; //$NON-NLS-1$

/**
 * Location of the repository lock
 */
private Location lockLocation = null;

/**
 * Allows an artifact repository to set the name of its blobstore.
 */
public static final String PROP_BLOBSTORE_NAME = "p2.blobstore.name"; //$NON-NLS-1$

/**
 * Does this instance of the repository currently hold a lock
 */
private boolean holdsLock = false;

private long cacheTimestamp = 0l;

public class ArtifactOutputStream extends OutputStream implements IStateful {
private boolean closed;
private long count = 0;
private IArtifactDescriptor descriptor;
private OutputStream destination;

```



```

private File file;
private IStatus status = Status.OK_STATUS;
private OutputStream firstLink;

public ArtifactOutputStream(OutputStream os, IArtifactDescriptor descriptor) {
    this(os, descriptor, null);
}

public ArtifactOutputStream(OutputStream os, IArtifactDescriptor descriptor, File file) {
    this.destination = os;
    this.descriptor = descriptor;
    this.file = file;
}

public void close() throws IOException {
    if (closed)
        return;
    closed = true;

    try {
        destination.close();
    } catch (IOException e) {
        // cleanup if possible
        if (file != null)
            delete(file);
        if (getStatus().isOK())
            throw e;
        // if the stream has already been e.g. canceled, we can return - the status is already set correctly
        return;
    }
    // if the steps ran ok and there was actual content, write the artifact descriptor
    // TODO the count check is a bit bogus but helps in some error cases (e.g., the optimizer)
    // where errors occurred in a processing step earlier in the chain. We likely need a better
    // or more explicit way of handling this case.
    OutputStream testStream = firstLink == null ? this : firstLink;
    if (ProcessingStepHandler.checkStatus(testStream).isOK() && count > 0) {
        ((ArtifactDescriptor) descriptor).setProperty(IArtifactDescriptor.DOWNLOAD_SIZE, Long.toString(count));
        addDescriptor(descriptor);
    } else if (file != null)
        // cleanup if possible
        delete(file);
}

public IStatus getStatus() {
    return status;
}

public OutputStream getDestination() {

```

```

return destination;
}

public void setStatus(IStatus status) {
this.status = status == null ? Status.OK_STATUS : status;
}

public void write(byte[] b) throws IOException {
destination.write(b);
count += b.length;
}

public void write(byte[] b, int off, int len) throws IOException {
destination.write(b, off, len);
count += len;
}

public void write(int b) throws IOException {
destination.write(b);
count++;
}

public void setFirstLink(OutputStream value) {
firstLink = value;
}
}

// TODO: optimize
// we could stream right into the folder
public static class ZippedFolderOutputStream extends OutputStream {

private final File folder;
private final FileOutputStream fos;
private final File zipFile;

public ZippedFolderOutputStream(File folder) throws IOException {
this.folder = folder;
zipFile = File.createTempFile(folder.getName(), JAR_EXTENSION, null);
fos = new FileOutputStream(zipFile);
}

public void close() throws IOException {
fos.close();
try {
FileUtils.unzipFile(zipFile, folder);
} finally {
zipFile.delete();
}
}
}

```

```

}

public void flush() throws IOException {
    fos.flush();
}

public String toString() {
    return fos.toString();
}

public void write(byte[] b) throws IOException {
    fos.write(b);
}

public void write(byte[] b, int off, int len) throws IOException {
    fos.write(b, off, len);
}

public void write(int b) throws IOException {
    fos.write(b);
}
}

private static final String ARTIFACT_FOLDER = "artifact.folder"; //$NON-NLS-1$
private static final String ARTIFACT_UUID = "artifact.uuid"; //$NON-NLS-1$
static final private String BLOBSTORE = ".blobstore/"; //$NON-NLS-1$
static final private String[][] PACKED_MAPPING_RULES = { {"(& (classifier=osgi.bundle) (format=packed))",
"$ {repoUrl}/plugins/${id}_${version}.jar.pack.gz", //$NON-NLS-1$//$NON-NLS-2$
    {"(& (classifier=osgi.bundle))", "$ {repoUrl}/plugins/${id}_${version}.jar", //$NON-NLS-1$//$NON-NLS-2$
    {"(& (classifier=org.eclipse.update.feature) (format=packed))",
"$ {repoUrl}/features/${id}_${version}.jar.pack.gz", //$NON-NLS-1$//$NON-NLS-2$
    {"(& (classifier=org.eclipse.update.feature))", "$ {repoUrl}/features/${id}_${version}.jar"}; //$NON-NLS-1$
1$//$NON-NLS-2$

static final private String[][] DEFAULT_MAPPING_RULES = { {"(& (classifier=osgi.bundle))",
"$ {repoUrl}/plugins/${id}_${version}.jar", //$NON-NLS-1$//$NON-NLS-2$
    {"(& (classifier=org.eclipse.update.feature))", "$ {repoUrl}/features/${id}_${version}.jar"}; //$NON-NLS-1$
1$//$NON-NLS-2$

private static final String JAR_EXTENSION = ".jar"; //$NON-NLS-1$
static final private String REPOSITORY_TYPE = IArtifactRepositoryManager.TYPE_SIMPLE_REPOSITORY;

static final private Integer REPOSITORY_VERSION = new Integer(1);
private static final String XML_EXTENSION = ".xml"; //$NON-NLS-1$
protected Set<SimpleArtifactDescriptor> artifactDescriptors = new HashSet<SimpleArtifactDescriptor>();
/**
 * Map<IArtifactKey,List<IArtifactDescriptor>> containing the index of artifacts in the repository.

```

```

*/
private Map<IArtifactKey, List<IArtifactDescriptor>> artifactMap = new HashMap<IArtifactKey,
List<IArtifactDescriptor>>();
private transient BlobStore blobStore;
private transient Mapper mapper = new Mapper();
private KeyIndex keyIndex;
private boolean snapshotNeeded = false;

static final private String PUBLISH_PACK_FILES_AS_SIBLINGS = "publishPackFilesAsSiblings"; //$NON-
NLS-1$

private static final int DEFAULT_MAX_THREADS = 4;

protected String[][] mappingRules = DEFAULT_MAPPING_RULES;

private MirrorSelector mirrors;

private boolean disableSave = false;

static void delete(File toDelete) {
    if (toDelete.isDirectory()) {
        File[] children = toDelete.listFiles();
        if (children != null) {
            for (int i = 0; i < children.length; i++) {
                delete(children[i]);
            }
        }
    }
    toDelete.delete();
}

public static URI getActualLocation(URI base, boolean compress) {
    return getActualLocation(base, compress ? JAR_EXTENSION : XML_EXTENSION);
}

private static URI getActualLocation(URI base, String extension) {
    return URIUtil.append(base, CONTENT_FILENAME + extension);
}

public static URI getBlobStoreLocation(URI base, String suffix) {
    return URIUtil.append(base, suffix);
}

/*
 * This is only called by the parser when loading a repository.
 */
SimpleArtifactRepository(IProvisioningAgent agent, String name, String type, String version, String description,
String provider, Set<SimpleArtifactDescriptor> artifacts, String[][] mappingRules, Map<String, String> properties)

```

```

{
    super(agent, name, type, version, null, description, provider, properties);
    this.artifactDescriptors.addAll(artifacts);
    this.mappingRules = mappingRules;
    for (SimpleArtifactDescriptor desc : artifactDescriptors)
        mapDescriptor(desc);
}

private synchronized void mapDescriptor(IArtifactDescriptor descriptor) {
    IArtifactKey key = descriptor.getArtifactKey();
    if (snapshotNeeded) {
        cloneArtifactMap();
        snapshotNeeded = false;
    }
    List<IArtifactDescriptor> descriptors = artifactMap.get(key);
    if (descriptors == null) {
        descriptors = new ArrayList<IArtifactDescriptor>();
        artifactMap.put(key, descriptors);
    }
    descriptors.add(descriptor);
    keyIndex = null;
}

private synchronized void unmapDescriptor(IArtifactDescriptor descriptor) {
    IArtifactKey key = descriptor.getArtifactKey();
    List<IArtifactDescriptor> descriptors = artifactMap.get(key);
    if (descriptors == null)
        return;

    if (snapshotNeeded) {
        cloneArtifactMap();
        snapshotNeeded = false;
        descriptors = artifactMap.get(key);
    }
    descriptors.remove(descriptor);
    if (descriptors.isEmpty())
        artifactMap.remove(key);
    keyIndex = null;
}

private void cloneArtifactMap() {
    HashMap<IArtifactKey, List<IArtifactDescriptor>> clone = new HashMap<IArtifactKey,
List<IArtifactDescriptor>>(artifactMap.size());
    for (Entry<IArtifactKey, List<IArtifactDescriptor>> entry : artifactMap.entrySet())
        clone.put(entry.getKey(), new ArrayList<IArtifactDescriptor>(entry.getValue()));
    artifactMap = clone;
}

```

```

public SimpleArtifactRepository(IProvisioningAgent agent, String repositoryName, URI location, Map<String,
String> properties) {
    super(agent, repositoryName, REPOSITORY_TYPE, REPOSITORY_VERSION.toString(), location, null, null,
properties);

    boolean lockAcquired = false;
    try {
        if (canLock()) {
            lockAcquired = lockAndLoad(true, new NullProgressMonitor());
            if (!lockAcquired)
                throw new IllegalStateException("Cannot acquire the lock for " + location); //$NON-NLS-1$
        }

        initializeAfterLoad(location, false); // Don't update the timestamp, it will be done during save
        if (properties != null) {
            if (properties.containsKey(PUBLISH_PACK_FILES_AS_SIBLINGS)) {
                synchronized (this) {
                    String newValue = properties.get(PUBLISH_PACK_FILES_AS_SIBLINGS);
                    if (Boolean.TRUE.toString().equals(newValue)) {
                        mappingRules = PACKED_MAPPING_RULES;
                    } else {
                        mappingRules = DEFAULT_MAPPING_RULES;
                    }
                }
                initializeMapper();
            }
        }
        save();
    } finally {
        if (lockAcquired)
            unlock();
    }
}

public synchronized void addDescriptor(IArtifactDescriptor toAdd, IProgressMonitor monitor) {
    boolean lockAcquired = false;
    try {
        if (canLock()) {
            lockAcquired = lockAndLoad(false, monitor);
            if (!lockAcquired)
                return;
        }

        if (artifactDescriptors.contains(toAdd))
            return;

        SimpleArtifactDescriptor internalDescriptor = createInternalDescriptor(toAdd);
        artifactDescriptors.add(internalDescriptor);
    }
}

```

```

    mapDescriptor(internalDescriptor);
    save();
} finally {
    if (lockAcquired)
        unlock();
}
}

public IArtifactDescriptor createArtifactDescriptor(IArtifactKey key) {
    return new SimpleArtifactDescriptor(key);
}

private SimpleArtifactDescriptor createInternalDescriptor(IArtifactDescriptor descriptor) {
    SimpleArtifactDescriptor internal = new SimpleArtifactDescriptor(descriptor);

    internal.setRepository(this);
    if (isFolderBased(descriptor))
        internal.setRepositoryProperty(ARTIFACT_FOLDER, Boolean.TRUE.toString());

    //clear out the UUID if we aren't using the blobstore.
    if (flatButPackedEnabled(descriptor) && internal.getProperty(ARTIFACT_UUID) != null) {
        internal.setProperty(ARTIFACT_UUID, null);
    }

    if (descriptor instanceof SimpleArtifactDescriptor) {
        Map<String, String> repoProperties = ((SimpleArtifactDescriptor) descriptor).getRepositoryProperties();
        for (Map.Entry<String, String> entry : repoProperties.entrySet()) {
            internal.setRepositoryProperty(entry.getKey(), entry.getValue());
        }
    }
    return internal;
}

public synchronized void addDescriptors(IArtifactDescriptor[] descriptors, IProgressMonitor monitor) {
    boolean lockAcquired = false;
    try {
        if (canLock()) {
            lockAcquired = lockAndLoad(false, monitor);
            if (!lockAcquired)
                return;
        }
    }

    for (int i = 0; i < descriptors.length; i++) {
        if (artifactDescriptors.contains(descriptors[i]))
            continue;
        SimpleArtifactDescriptor internalDescriptor = createInternalDescriptor(descriptors[i]);
        artifactDescriptors.add(internalDescriptor);
        mapDescriptor(internalDescriptor);
    }
}

```

```

    }
    save();
} finally {
    if (lockAcquired)
        unlock();
    }
}

private synchronized OutputStream addPostSteps(ProcessingStepHandler handler, IArtifactDescriptor descriptor,
OutputStream destination, IProgressMonitor monitor) {
    ArrayList<ProcessingStep> steps = new ArrayList<ProcessingStep>();
    steps.add(new SignatureVerifier());
    if (steps.isEmpty())
        return destination;
    ProcessingStep[] stepArray = steps.toArray(new ProcessingStep[steps.size()]);
    // TODO should probably be using createAndLink here
    return handler.link(stepArray, destination, monitor);
}

private OutputStream addPreSteps(ProcessingStepHandler handler, IArtifactDescriptor descriptor, OutputStream
destination, IProgressMonitor monitor) {
    ArrayList<ProcessingStep> steps = new ArrayList<ProcessingStep>();
    if
(IArtifactDescriptor.TYPE_ZIP.equals(descriptor.getProperty(IArtifactDescriptor.DOWNLOAD_CONTENTTYPE
)))
        steps.add(new ZipVerifierStep());
    if (MD5_CHECK_ENABLED && descriptor.getProperty(IArtifactDescriptor.DOWNLOAD_MD5) != null)
        steps.add(new MD5Verifier(descriptor.getProperty(IArtifactDescriptor.DOWNLOAD_MD5)));
    // Add steps here if needed
    if (steps.isEmpty())
        return destination;
    ProcessingStep[] stepArray = steps.toArray(new ProcessingStep[steps.size()]);
    // TODO should probably be using createAndLink here
    return handler.link(stepArray, destination, monitor);
}

private byte[] bytesFromHexString(String string) {
    byte[] bytes = new byte[UniversalUniqueIdentifier.BYTES_SIZE];
    for (int i = 0; i < string.length(); i += 2) {
        String byteString = string.substring(i, i + 2);
        bytes[i / 2] = (byte) Integer.parseInt(byteString, 16);
    }
    return bytes;
}

private String bytesToHexString(byte[] bytes) {
    StringBuffer buffer = new StringBuffer();
    for (int i = 0; i < bytes.length; i++) {

```



```

String hexString;
if (bytes[i] < 0)
    hexString = Integer.toHexString(256 + bytes[i]);
else
    hexString = Integer.toHexString(bytes[i]);
if (hexString.length() == 1)
    buffer.append("0"); //$NON-NLS-1$
buffer.append(hexString);
}
return buffer.toString();
}

public synchronized boolean contains(IArtifactDescriptor descriptor) {
    if (!holdsLock() && URIUtil.isFileURI(getLocation())) {
        load(new NullProgressMonitor());
    }
    SimpleArtifactDescriptor simpleDescriptor = createInternalDescriptor(descriptor);
    return artifactDescriptors.contains(simpleDescriptor);
}

public synchronized boolean contains(IArtifactKey key) {
    if (!holdsLock() && URIUtil.isFileURI(getLocation())) {
        load(new NullProgressMonitor());
    }
    return artifactMap.containsKey(key);
}

public synchronized URI createLocation(ArtifactDescriptor descriptor) {
    if (flatButPackedEnabled(descriptor)) {
        return getLocationForPackedButFlatArtifacts(descriptor);
    }
    // if the descriptor is canonical, clear out any UUID that might be set and use the Mapper
    if (descriptor.getProcessingSteps().length == 0) {
        descriptor.setProperty(ARTIFACT_UUID, null);
        IArtifactKey key = descriptor.getArtifactKey();
        URI result = mapper.map(getLocation(), key.getClassifier(), key.getId(), key.getVersion().toString(),
descriptor.getProperty(IArtifactDescriptor.FORMAT));
        if (result != null) {
            if (isFolderBased(descriptor) && URIUtil.lastSegment(result).endsWith(JAR_EXTENSION)) {
                return URIUtil.removeFileExtension(result);
            }
            return result;
        }
    }
}

// Otherwise generate a location by creating a UUID, remembering it in the properties
// and computing the location
byte[] bytes = new UniversalUniqueIdentifier().toBytes();

```

```

descriptor.setProperty(ARTIFACT_UUID, bytesToHexString(bytes));
return blobStore.fileFor(bytes);
}

/**
 * Removes the given descriptor, and the physical artifact corresponding
 * to that descriptor. Returns <code>true</code> if and only if the
 * descriptor existed in the repository, and was successfully removed.
 */
private boolean doRemoveArtifact(IArtifactDescriptor descriptor) {
    SimpleArtifactDescriptor simple = null;
    if (descriptor instanceof SimpleArtifactDescriptor)
        simple = (SimpleArtifactDescriptor) descriptor;
    else
        simple = createInternalDescriptor(descriptor);
    if (simple.getRepositoryProperty(SimpleArtifactDescriptor.ARTIFACT_REFERENCE) == null) {
        File file = getArtifactFile(descriptor);
        if (file != null) {
            // If the file != null remove it, otherwise just remove
            // the descriptor
            delete(file);
            if (file.exists())
                return false;
        }
    }
    boolean result = artifactDescriptors.remove(descriptor);
    if (result)
        unmapDescriptor(descriptor);

    return result;
}

protected IStatus downloadArtifact(IArtifactDescriptor descriptor, OutputStream destination, IProgressMonitor
monitor) {
    if (isFolderBased(descriptor)) {
        File artifactFolder = getArtifactFile(descriptor);
        if (artifactFolder == null) {
            if (getLocation(descriptor) != null && !URIUtil.isFileURI(getLocation(descriptor)))
                return reportStatus(descriptor, destination, new Status(IStatus.ERROR, Activator.ID,
NLS.bind(Messages.folder_artifact_not_file_repo, descriptor.getArtifactKey())));
            return reportStatus(descriptor, destination, new Status(IStatus.ERROR, Activator.ID,
NLS.bind(Messages.artifact_not_found, descriptor.getArtifactKey())));
        }
        // TODO: optimize and ensure manifest is written first
        File zipFile = null;
        try {
            zipFile = File.createTempFile(artifactFolder.getName(), JAR_EXTENSION, null);
            FileUtils.zip(artifactFolder.listFiles(), null, zipFile, FileUtils.createRootPathComputer(artifactFolder));

```

```

    FileInputStream fis = new FileInputStream(zipFile);
    FileUtils.copyStream(fis, true, destination, false);
} catch (IOException e) {
    return reportStatus(descriptor, destination, new Status(IStatus.ERROR, Activator.ID, e.getMessage()));
} finally {
    if (zipFile != null)
        zipFile.delete();
}
return reportStatus(descriptor, destination, Status.OK_STATUS);
}

//download from the best available mirror
URI baseLocation = getLocation(descriptor);
if (baseLocation == null)
    return new Status(IStatus.ERROR, Activator.ID, NLS.bind(Messages.no_location, descriptor));
URI mirrorLocation = getMirror(baseLocation, monitor);
IStatus status = downloadArtifact(descriptor, mirrorLocation, destination, monitor);
IStatus result = reportStatus(descriptor, destination, status);
// if the original download went reasonably but the reportStatus found some issues
// (e.g, in the processing steps/validators) then mark the mirror as bad and return
// a retry code (assuming we have more mirrors)
if ((status.isOK() || status.matches(IStatus.INFO | IStatus.WARNING)) && result.getSeverity() == IStatus.ERROR)
{
    if (mirrors != null) {
        mirrors.reportResult(mirrorLocation.toString(), result);
        if (mirrors.isValidMirror())
            return new MultiStatus(Activator.ID, CODE_RETRY, new IStatus[] {result}, "Retry another mirror", null);
    }
}
//NON-NLS-1$
}
}

// if the original status was a retry, don't lose that.
return status.getCode() == CODE_RETRY ? status : result;
}

/**
 * Copy a file to an output stream.
 * Optionally close the streams when done.
 * Notify the monitor about progress we make
 *
 * @return the number of bytes written.
 */
private IStatus copyFileToStream(File in, OutputStream out, IProgressMonitor monitor) {
    // Buffer filled with contents from the stream at a time
    int bufferSize = 16 * 1024;
    byte[] buffer = new byte[bufferSize];
    // Number of passes in the below loop, convert to integer which is needed in monitor conversion below
    int expected_loops = new Double(in.length() / bufferSize).intValue() + 1; // +1: also count the initial run
    SubMonitor sub = SubMonitor.convert(monitor, Messages.downloading + in.getName(), expected_loops);

```

```

// Be optimistic about the outcome of this...
IStatus status = Status.OK_STATUS;
try {
    FileInputStream stream = new FileInputStream(in);
    try {
        int len;
        while ((len = stream.read(buffer)) != -1) {
            out.write(buffer, 0, len);
            sub.worked(1);
        }
    } finally {
        stream.close();
    }
} catch (IOException ioe) {
    status = new Status(IStatus.ERROR, Activator.ID, NLS.bind(Messages.error_copying_local_file,
in.getAbsolutePath()), ioe);
}
sub.done();
return status;
}

private IStatus downloadArtifact(IArtifactDescriptor descriptor, URI mirrorLocation, OutputStream destination,
IPrimaryProgressMonitor monitor) {
    //Bug 340352: transport has performance overhead of 100ms and more, bypass it for local copies
    IStatus result = Status.OK_STATUS;
    if (mirrorLocation.getScheme().equals(SimpleArtifactRepositoryFactory.PROTOCOL_FILE))
        result = copyFileToStream(new File(mirrorLocation), destination, monitor);
    else
        result = getTransport().download(mirrorLocation, destination, monitor);
    if (mirrors != null)
        mirrors.reportResult(mirrorLocation.toString(), result);
    if (result.isOK() || result.getSeverity() == IStatus.CANCEL)
        return result;
    if (monitor.isCanceled())
        return Status.CANCEL_STATUS;
    // If there are more valid mirrors then return an error with a special code that tells the caller
    // to keep trying. Note that the message in the status is largely irrelevant but the child
    // status tells the story of why we failed on this try.
    // TODO find a better way of doing this.
    if (mirrors != null && mirrors.isValidMirror())
        return new MultiStatus(Activator.ID, CODE_RETRY, new IStatus[] {result}, "Retry another mirror", null);
}
//$NON-NLS-1$
return result;
}

/**
 * Returns an equivalent mirror location for the given artifact location.
 * @param baseLocation The location of the artifact in this repository

```

```

* @return the Location of the artifact in this repository, or an equivalent mirror
*/
private synchronized URI getMirror(URI baseLocation, IProgressMonitor monitor) {
    if (!MIRRORS_ENABLED || (!isForceThreading() && isLocal()))
        return baseLocation;
    if (mirrors == null)
        mirrors = new MirrorSelector(this, getTransport());
    return mirrors.getMirrorLocation(baseLocation, monitor);
}

@SuppressWarnings("rawtypes")
public Object getAdapter(Class adapter) {
    // if we are adapting to file or writable repositories then make sure we have a file location
    if (adapter == IFileArtifactRepository.class)
        if (!isLocal())
            return null;
    return super.getAdapter(adapter);
}

IStatus getArtifact(IArtifactRequest request, IProgressMonitor monitor) {
    request.perform(this, monitor);
    return request.getResult();
}

public IStatus getArtifact(IArtifactDescriptor descriptor, OutputStream destination, IProgressMonitor monitor) {
    if (!holdsLock() && URIUtil.isFileURI(getLocation())) {
        load(new NullProgressMonitor());
    }
    if (monitor.isCanceled())
        return Status.CANCEL_STATUS;
    ProcessingStepHandler handler = new ProcessingStepHandler();
    destination = processDestination(handler, descriptor, destination, monitor);
    IStatus status = ProcessingStepHandler.checkStatus(destination);
    if (!status.isOK() && status.getSeverity() != IStatus.INFO)
        return status;

    return downloadArtifact(descriptor, destination, monitor);
}

public IStatus getRawArtifact(IArtifactDescriptor descriptor, OutputStream destination, IProgressMonitor monitor)
{
    if (!holdsLock() && URIUtil.isFileURI(getLocation())) {
        load(new NullProgressMonitor());
    }
    if (monitor.isCanceled())
        return Status.CANCEL_STATUS;
    return downloadArtifact(descriptor, destination, monitor);
}

```

```

public synchronized IArtifactDescriptor[] getArtifactDescriptors(IArtifactKey key) {
    if (!holdsLock() && URIUtil.isFileURI(getLocation())) {
        load(new NullProgressMonitor());
    }

    List<IArtifactDescriptor> result = artifactMap.get(key);
    if (result == null)
        return new IArtifactDescriptor[0];

    return result.toArray(new IArtifactDescriptor[result.size()]);
}

public File getArtifactFile(IArtifactDescriptor descriptor) {
    URI result = getLocation(descriptor);
    if (result == null || !URIUtil.isFileURI(result))
        return null;
    return URIUtilToFile(result);
}

public File getArtifactFile(IArtifactKey key) {
    IArtifactDescriptor descriptor = getCompleteArtifactDescriptor(key);
    if (descriptor == null)
        return null;
    return getArtifactFile(descriptor);
}

public IStatus getArtifacts(IArtifactRequest[] requests, IProgressMonitor monitor) {
    if (!holdsLock() && URIUtil.isFileURI(getLocation())) {
        load(new NullProgressMonitor());
    }
    if (monitor.isCanceled())
        return Status.CANCEL_STATUS;

    final MultiStatus overallStatus = new MultiStatus(Activator.ID, IStatus.OK, null, null);
    LinkedList<IArtifactRequest> requestsPending = new LinkedList<IArtifactRequest>(Arrays.asList(requests));

    int numberOfJobs = Math.min(requests.length, getMaximumThreads());
    if (numberOfJobs <= 1 || (!isForceThreading() && isLocal())) {
        SubMonitor subMonitor = SubMonitor.convert(monitor, requests.length);
        try {
            for (int i = 0; i < requests.length; i++) {
                if (monitor.isCanceled())
                    return Status.CANCEL_STATUS;
                IStatus result = getArtifact(requests[i], subMonitor.newChild(1));
                if (!result.isOK())
                    overallStatus.add(result);
            }
        }
    }
}

```

```

    } finally {
        subMonitor.done();
    }
} else {
    // initialize the various jobs needed to process the get artifact requests
    monitor.beginTask(NLS.bind(Messages.sar_downloading, Integer.toString(requests.length)), requests.length);
    try {
        DownloadJob jobs[] = new DownloadJob[numberOfJobs];
        for (int i = 0; i < numberOfJobs; i++) {
            jobs[i] = new DownloadJob(Messages.sar_downloadJobName + i);
            jobs[i].initialize(this, requestsPending, monitor, overallStatus);
            jobs[i].schedule();
        }
        // wait for all the jobs to complete
        try {
            Job.getJobManager().join(DownloadJob.FAMILY, null);
        } catch (InterruptedException e) {
            //ignore
        }
    } finally {
        monitor.done();
    }
}
return (monitor.isCanceled() ? Status.CANCEL_STATUS : overallStatus);
}

```

```

public synchronized IArtifactDescriptor getCompleteArtifactDescriptor(IArtifactKey key) {
    if (!holdsLock() && URIUtil.isFileURI(getLocation())) {
        load(new NullProgressMonitor());
    }
    List<IArtifactDescriptor> descriptors = artifactMap.get(key);
    if (descriptors == null)
        return null;

    for (IArtifactDescriptor desc : descriptors) {
        // look for a descriptor that matches the key and is "complete"
        if (desc.getArtifactKey().equals(key) && desc.getProcessingSteps().length == 0)
            return desc;
    }
    return null;
}

```

```

public synchronized Set<SimpleArtifactDescriptor> getDescriptors() {
    if (!holdsLock() && URIUtil.isFileURI(getLocation())) {
        load(new NullProgressMonitor());
    }
    return artifactDescriptors;
}

```

```

/**
 * Typically non-canonical forms of the artifact are stored in the blob store.
 * However, we support having the pack200 files alongside the canonical artifact
 * for compatibility with the format used in optimized update sites. We call
 * this arrangement "flat but packed".
 */
private boolean flatButPackedEnabled(IArtifactDescriptor descriptor) {
    return Boolean.TRUE.toString().equals(getProperties().get(PUBLISH_PACK_FILES_AS_SIBLINGS)) &&
    IArtifactDescriptor.FORMAT_PACKED.equals(descriptor.getProperty(IArtifactDescriptor.FORMAT));
}

/**
 * @see #flatButPackedEnabled(IArtifactDescriptor)
 */
private URI getLocationForPackedButFlatArtifacts(IArtifactDescriptor descriptor) {
    IArtifactKey key = descriptor.getArtifactKey();
    return mapper.map(getLocation(), key.getClassifier(), key.getId(), key.getVersion().toString(),
    descriptor.getProperty(IArtifactDescriptor.FORMAT));
}

public synchronized URI getLocation(IArtifactDescriptor descriptor) {
    // if the artifact has a uuid then use it
    String uuid = descriptor.getProperty(ARTIFACT_UUID);
    if (uuid != null)
        return blobStore.fileFor(bytesFromHexString(uuid));

    if (flatButPackedEnabled(descriptor)) {
        return getLocationForPackedButFlatArtifacts(descriptor);
    }

    try {
        // if the artifact is just a reference then return the reference location
        if (descriptor instanceof SimpleArtifactDescriptor) {
            String artifactReference = ((SimpleArtifactDescriptor)
            descriptor).getRepositoryProperty(SimpleArtifactDescriptor.ARTIFACT_REFERENCE);
            if (artifactReference != null) {
                try {
                    return new URI(artifactReference);
                } catch (URISyntaxException e) {
                    return URIUtil.fromString(artifactReference);
                }
            }
        }
    }

    // if the descriptor is complete then use the mapping rules...
    if (descriptor.getProcessingSteps().length == 0) {
        IArtifactKey key = descriptor.getArtifactKey();

```



```

    URI result = mapper.map(getLocation(), key.getClassifier(), key.getId(), key.getVersion().toString(),
descriptor.getProperty(IArtifactDescriptor.FORMAT));
    if (result != null) {
        if (isFolderBased(descriptor) && URIUtil.lastSegment(result).endsWith(JAR_EXTENSION))
            return URIUtil.removeFileExtension(result);
        if (result.getScheme() == null && "file".equals(getLocation().getScheme())) //$NON-NLS-1$
            return URIUtil.makeAbsolute(result, new File(System.getProperty("user.dir")).toURI()); //$NON-NLS-1$
        return result;
    }
}
} catch (URISyntaxException e) {
    return null;
}
// in the end there is not enough information so return null
return null;
}

/**
 * Returns the maximum number of concurrent download threads.
 */
private int getMaximumThreads() {
    int repoMaxThreads = DEFAULT_MAX_THREADS;
    int userMaxThreads = DEFAULT_MAX_THREADS;
    try {
        String maxThreadString = getProperties().get(PROP_MAX_THREADS);
        if (maxThreadString != null)
            repoMaxThreads = Math.max(1, Integer.parseInt(maxThreadString));
    } catch (NumberFormatException nfe) {
        // default number of threads
    }
    try {
        String maxThreadString = Activator.getContext().getProperty(PROP_MAX_THREADS);
        if (maxThreadString != null)
            userMaxThreads = Math.max(1, Integer.parseInt(maxThreadString));
    } catch (NumberFormatException nfe) {
        // default number of threads
    }
    return Math.min(repoMaxThreads, userMaxThreads);
}

public OutputStream getOutputStream(IArtifactDescriptor descriptor) throws ProvisionException {
    if (!holdsLock() && URIUtil.isFileURI(getLocation())) {
        load(new NullProgressMonitor());
    }

    assertModifiable();

    // Create a copy of the original descriptor that we can manipulate and add to our repo.

```

```

ArtifactDescriptor newDescriptor = createInternalDescriptor(descriptor);

// Check if the artifact is already in this repository, check the newDescriptor instead of the original
// since the implementation of hash>equals on the descriptor matters here.
if (contains(newDescriptor)) {
    String msg = NLS.bind(Messages.available_already_in, getLocation().toString());
    throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID,
ProvisionException.ARTIFACT_EXISTS, msg, null));
}

// Determine writing location
URI newLocation = createLocation(newDescriptor);
if (newLocation == null)
    throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID, NLS.bind(Messages.no_location,
newDescriptor)));
String file = URIUtilToFile(newLocation).getAbsolutePath();

// TODO at this point we have to assume that the repository is file-based. Eventually
// we should end up with writeable URLs...
// Make sure that the file does not exist and that the parents do
File outputFile = new File(file);
if (outputFile.exists()) {
    System.err.println("Artifact repository out of sync. Overwriting " + outputFile.getAbsolutePath()); //$NON-NLS-1$
    delete(outputFile);
}

OutputStream target = null;
try {
    if (isFolderBased(newDescriptor)) {
        mkdirs(outputFile);
        if (!outputFile.isDirectory())
            throw failedWrite(new IOException(NLS.bind(Messages.sar_failedMkdir, outputFile.toString())));
        target = new ZippedFolderOutputStream(outputFile);
    } else {
        // file based
        File parent = outputFile.getParentFile();
        mkdirs(parent);
        if (!parent.isDirectory())
            throw failedWrite(new IOException(NLS.bind(Messages.sar_failedMkdir, parent.toString())));
        target = new FileOutputStream(file);
    }
}

// finally create and return an output stream suitably wrapped so that when it is
// closed the repository is updated with the descriptor
return new ArtifactOutputStream(new BufferedOutputStream(target), newDescriptor, outputFile);
} catch (IOException e) {
    throw failedWrite(e);
}

```

```

}

/**
 * We implement mkdirs ourselves because this code is known to run in
 * highly concurrent scenarios, and there is a race condition in the JRE implementation
 * of mkdirs (see bug 265654).
 */
private void mkdirs(File dir) {
    if (dir == null || dir.exists())
        return;
    if (dir.mkdir())
        return;
    mkdirs(dir.getParentFile());
    dir.mkdir();
}

private ProvisionException failedWrite(Exception e) throws ProvisionException {
    String msg = NLS.bind(Messages.repoFailedWrite, getLocation());
    throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID,
ProvisionException.REPOSITORY_FAILED_WRITE, msg, e));
}

public synchronized String[][] getRules() {
    if (!holdsLock() && URIUtil.isFileURI(getLocation())) {
        load(new NullProgressMonitor());
    }
    return mappingRules;
}

private Transport getTransport() {
    return (Transport) getProvisioningAgent().getService(Transport.SERVICE_NAME);
}

// use this method to setup any transient fields etc after the object has been restored from a stream
public synchronized void initializeAfterLoad(URI repoLocation) {
    this.initializeAfterLoad(repoLocation, true);
}

private synchronized void initializeAfterLoad(URI repoLocation, boolean updateTimestamp) {
    setLocation(repoLocation);
    String suffix = getBlobStoreName(BLOBSTORE);
    blobStore = new BlobStore(getBlobStoreLocation(repoLocation, suffix), 128);
    initializeMapper();
    for (SimpleArtifactDescriptor desc : artifactDescriptors)
        desc.setRepository(this);
    if (updateTimestamp)
        updateTimestamp();
}

```

```

}

private String getBlobStoreName(String defaultValue) {
    String value = getProperty(PROP_BLOBSTORE_NAME);
    if (value == null || value.length() == 0) {
        return defaultValue;
    }
    return value;
}

private synchronized void initializeMapper() {
    mapper = new Mapper();
    mapper.initialize(Activator.getContext(), mappingRules);
}

private boolean isFolderBased(IArtifactDescriptor descriptor) {
    // This is called from createInternalDescriptor, so if we aren't a
    // SimpleArtifactDescriptor then just check the descriptor properties instead
    // of creating the internal descriptor.
    SimpleArtifactDescriptor internalDescriptor = null;
    if (descriptor instanceof SimpleArtifactDescriptor)
        internalDescriptor = (SimpleArtifactDescriptor) descriptor;
    if (internalDescriptor != null) {
        String useArtifactFolder = internalDescriptor.getRepositoryProperty(ARTIFACT_FOLDER);
        if (useArtifactFolder != null)
            return Boolean.valueOf(useArtifactFolder).booleanValue();
    }
    return Boolean.valueOf(descriptor.getProperty(ARTIFACT_FOLDER)).booleanValue();
}

private boolean isForceThreading() {
    return "true".equals(getProperties().get(PROP_FORCE_THREADING)); //$NON-NLS-1$
}

private boolean isLocal() {
    return "file".equalsIgnoreCase(getLocation().getScheme()); //$NON-NLS-1$
}

public boolean isModifiable() {
    return isLocal();
}

public OutputStream processDestination(ProcessingStepHandler handler, IArtifactDescriptor descriptor,
    OutputStream destination, IProgressMonitor monitor) {
    destination = addPostSteps(handler, descriptor, destination, monitor);
    destination = handler.createAndLink(getProvisioningAgent(), descriptor.getProcessingSteps(), descriptor,
    destination, monitor);
    destination = addPreSteps(handler, descriptor, destination, monitor);
}

```

```

return destination;
}

public synchronized void removeAll(IProgressMonitor monitor) {
    boolean lockAcquired = false;
    try {
        if (canLock()) {
            lockAcquired = lockAndLoad(false, monitor);
            if (!lockAcquired)
                return;
        }

        IArtifactDescriptor[] toRemove = artifactDescriptors.toArray(new IArtifactDescriptor[artifactDescriptors.size()]);
        boolean changed = false;
        for (int i = 0; i < toRemove.length; i++)
            changed |= doRemoveArtifact(toRemove[i]);
        if (changed)
            save();
    } finally {
        if (lockAcquired)
            unlock();
    }
}

public synchronized void removeDescriptor(IArtifactDescriptor descriptor, IProgressMonitor monitor) {
    boolean lockAcquired = false;
    try {
        if (canLock()) {
            lockAcquired = lockAndLoad(false, monitor);
            if (!lockAcquired)
                return;
        }

        if (doRemoveArtifact(descriptor))
            save();
    } finally {
        if (lockAcquired)
            unlock();
    }
}

public synchronized void removeDescriptors(IArtifactDescriptor[] descriptors, IProgressMonitor monitor) {
    boolean lockAcquired = false;
    try {
        if (canLock()) {
            lockAcquired = lockAndLoad(false, monitor);
            if (!lockAcquired)
                return;
        }
    }
}

```

```

    }

    boolean changed = false;
    for (IArtifactDescriptor descriptor : descriptors)
        changed |= doRemoveArtifact(descriptor);
    if (changed)
        save();
    } finally {
    if (lockAcquired)
        unlock();
    }
}

public synchronized void removeDescriptors(IArtifactKey[] keys, IProgressMonitor monitor) {
    boolean lockAcquired = false;
    try {
        if (canLock()) {
            lockAcquired = lockAndLoad(false, monitor);
            if (!lockAcquired)
                return;
        }
        boolean changed = false;
        for (IArtifactKey key : keys) {
            IArtifactDescriptor[] descriptors = getArtifactDescriptors(key);
            for (IArtifactDescriptor descriptor : descriptors)
                changed |= doRemoveArtifact(descriptor);
        }
        if (changed)
            save();
    } finally {
        if (lockAcquired)
            unlock();
    }
}

public synchronized void removeDescriptor(IArtifactKey key, IProgressMonitor monitor) {
    boolean lockAcquired = false;
    try {
        if (canLock()) {
            lockAcquired = lockAndLoad(false, monitor);
            if (!lockAcquired)
                return;
        }
        IArtifactDescriptor[] toRemove = getArtifactDescriptors(key);
        boolean changed = false;
        for (int i = 0; i < toRemove.length; i++)

```

```

    changed |= doRemoveArtifact(toRemove[i]);
    if (changed)
        save();
    } finally {
    if (lockAcquired)
        unlock();
    }
}

private IStatus reportStatus(IArtifactDescriptor descriptor, OutputStream destination, IStatus status) {
    // If the destination is just a normal stream then the status is simple. Just return
    // it and do not close the destination
    if (!(destination instanceof ProcessingStep))
        return status;

    // If the destination is a processing step then close the stream to flush the data through all
    // the steps. then collect up the status from all the steps and return
    try {
        destination.close();
    } catch (IOException e) {
        return new Status(IStatus.ERROR, Activator.ID, NLS.bind(Messages.sar_reportStatus,
descriptor.getArtifactKey().toExternalForm()), e);
    }

    // An error occurred obtaining the artifact, ProcessingStep errors aren't important
    if (status.matches(IStatus.ERROR))
        return status;

    IStatus stepStatus = ProcessingStepHandler.getErrorStatus(destination);
    // if the steps all ran ok and there is no interesting information, return the status from this method
    if (!stepStatus.isMultiStatus() && stepStatus.isOK())
        return status;
    // else gather up the status from the steps
    MultiStatus result = new MultiStatus(Activator.ID, IStatus.OK, new IStatus[0],
NLS.bind(Messages.sar_reportStatus, descriptor.getArtifactKey().toExternalForm()), null);

    if (!status.isOK()) {
        // Transport pushes its status onto the output stream if the stream implements IStateful, to prevent
        // duplication determine if the Status is present in the ProcessingStep status.
        boolean found = false;
        IStatus[] stepStatusChildren = stepStatus.getChildren();
        for (int i = 0; i < stepStatusChildren.length && !found; i++)
            if (stepStatusChildren[i] == status)
                found = true;
        if (!found)
            result.merge(status);
    }
}

```

```

result.merge(stepStatus);
return result;
}

public void save() {
    if (disableSave)
        return;
    boolean compress = "true".equalsIgnoreCase(getProperty(PROP_COMPRESSED)); //$NON-NLS-1$
    save(compress);
}

private void save(boolean compress) {
    assertModifiable();
    OutputStream os = null;
    try {
        try {
            URI actualLocation = getActualLocation(getLocation(), false);
            File artifactsFile = URIUtil.toFile(actualLocation);
            File jarFile = URIUtil.toFile(getActualLocation(getLocation(), true));
            if (!compress) {
                if (jarFile.exists()) {
                    jarFile.delete();
                }
                if (!artifactsFile.exists()) {
                    // create parent folders
                    mkdirs(artifactsFile.getParentFile());
                }
                os = new FileOutputStream(artifactsFile);
            } else {
                if (artifactsFile.exists()) {
                    artifactsFile.delete();
                }
                if (!jarFile.exists()) {
                    mkdirs(jarFile.getParentFile());
                    jarFile.createNewFile();
                }
                JarOutputStream jOs = new JarOutputStream(new FileOutputStream(jarFile));
                jOs.putNextEntry(new JarEntry(new Path(artifactsFile.getAbsolutePath()).lastSegment()));
                os = jOs;
            }
            super.setProperty(IRepository.PROP_TIMESTAMP, Long.toString(System.currentTimeMillis()), new
            NullProgressMonitor());
            new SimpleArtifactRepositoryIO(getProvisioningAgent()).write(this, os);
        } catch (IOException e) {
            // TODO proper exception handling
            e.printStackTrace();
        } finally {
            if (os != null)

```



```

        os.close();
        updateTimestamp();
    }
} catch (IOException e) {
    e.printStackTrace();
}
}

private String doSetProperty(String key, String newValue, IProgressMonitor monitor, boolean save) {
    String oldValue = super.setProperty(key, newValue, new NullProgressMonitor());
    if (oldValue == newValue || (oldValue != null && oldValue.equals(newValue)))
        return oldValue;
    if (PUBLISH_PACK_FILES_AS_SIBLINGS.equals(key)) {
        synchronized (this) {
            if (Boolean.TRUE.toString().equals(newValue)) {
                mappingRules = PACKED_MAPPING_RULES;
            } else {
                mappingRules = DEFAULT_MAPPING_RULES;
            }
            initializeMapper();
        }
    }
    if (save)
        save();
    return oldValue;
}

public String setProperty(String key, String newValue, IProgressMonitor monitor) {
    boolean lockAcquired = false;
    try {
        if (canLock()) {
            lockAcquired = lockAndLoad(false, monitor);
            if (!lockAcquired)
                return super.getProperty(key);
        }
        return doSetProperty(key, newValue, monitor, true);
    } finally {
        if (lockAcquired)
            unlock();
    }
}

public synchronized void setRules(String[][] rules) {
    mappingRules = rules;
}

public String toString() {
    return getLocation().toString();
}

```

```

}

public IQuery<IArtifactDescriptor> descriptorQueryable() {
    return new IQuery<IArtifactDescriptor>() {
        public IQueryResult<IArtifactDescriptor> query(IQuery<IArtifactDescriptor> query, IProgressMonitor monitor) {
            synchronized (SimpleArtifactRepository.this) {
                snapshotNeeded = true;
                Collection<List<IArtifactDescriptor>> desc = SimpleArtifactRepository.this.artifactMap.values();
                return query.perform(new CompoundIterator<IArtifactDescriptor>(desc.iterator()));
            }
        }
    };
}

public IQueryResult<IArtifactKey> query(IQuery<IArtifactKey> query, IProgressMonitor monitor) {
    return IndexProvider.query(this, query, monitor);
}

public synchronized Iterator<IArtifactKey> everything() {
    if (!holdsLock() && URIUtil.isFileURI(getLocation())) {
        load(new NullProgressMonitor());
    }
    snapshotNeeded = true;
    return artifactMap.keySet().iterator();
}

public IStatus executeBatch(IRunnableWithProgress runnable, IProgressMonitor monitor) {
    IStatus result = null;

    boolean lockAcquired = false;
    synchronized (this) {
        try {
            if (canLock()) {
                lockAcquired = lockAndLoad(false, monitor);
                if (!lockAcquired)
                    return new Status(IStatus.ERROR, Activator.ID, "Could not lock artifact repository for writing", null); //NON-NLS-1$
            }
        }

        disableSave = true;
        runnable.run(monitor);
    } catch (OperationCanceledException oce) {
        return new Status(IStatus.CANCEL, Activator.ID, oce.getMessage(), oce);
    } catch (Throwable e) {
        result = new Status(IStatus.ERROR, Activator.ID, e.getMessage(), e);
    } finally {
        disableSave = false;
        try {

```

```

    save();
  } catch (Exception e) {
    if (result != null)
      result = new MultiStatus(Activator.ID, IStatus.ERROR, new IStatus[] {result}, e.getMessage(), e);
    else
      result = new Status(IStatus.ERROR, Activator.ID, e.getMessage(), e);
  } finally {
    if (lockAcquired)
      unlock();
  }
}
}
}
if (result == null)
  result = Status.OK_STATUS;
return result;
}

```

```

public synchronized IIndex<IArtifactKey> getIndex(String memberName) {
  if (!holdsLock() && URIUtil.isFileURI(getLocation())) {
    load(new NullProgressMonitor());
  }
  if (ArtifactKey.MEMBER_ID.equals(memberName)) {
    snapshotNeeded = true;
    if (keyIndex == null)
      keyIndex = new KeyIndex(artifactMap.keySet());
    return keyIndex;
  }
  return null;
}

```

```

public Object getManagedProperty(Object client, String memberName, Object key) {
  return null;
}

```

```

/**

```

```

 * Locks the location and optionally loads the repository.
 *
 * @param ignoreLoad If ignoreLoad is set to true, then the location is locked
 *                   but the repository is not loaded. It is expected
 *                   that the caller will load the repository manually
 * @return True if the lock was acquired, false otherwise
 */

```

```

private synchronized boolean lockAndLoad(boolean ignoreLoad, IProgressMonitor monitor) {
  if (holdsLock) {
    throw new IllegalStateException("Locking is not reentrant"); //$NON-NLS-1$
  }
  holdsLock = false;
  boolean success = true;

```

```

try {
try {
holdsLock = lock(true, monitor);
} catch (Exception e) {
e.printStackTrace();
return false;
}

if (holdsLock) {
if (!ignoreLoad) {
success = false;
doLoad(new NullProgressMonitor());
success = true;
}
return true;
}
return false;
} finally {
// If we did not successfully load the repository, make sure we free the lock.
// This will only happen if doLoad() throws an exception, otherwise
// we will set success to true, and return above
if (!success)
unlock();
}
}

private synchronized boolean canLock() {
if (holdsLock())
return false;
if (!URIUtil.isFileURI(getLocation()))
return false;

try {
lockLocation = getLockLocation();
} catch (IOException e) {
return false;
}
return !lockLocation.isReadOnly();
}

/**
 * Actually lock the location. This method should only be called
 * from LockAndLoad. If you only want to lock the repository and not
 * load it, see { @link SimpleArtifactRepository#lockAndLoad(boolean, IProgressMonitor)}.
 */
private synchronized boolean lock(boolean wait, IProgressMonitor monitor) throws IOException {
if (!Activator.getInstance().enableArtifactLocking())

```

```

return true;

if (holdsLock()) {
    throw new IllegalStateException("Locking is not reentrant"); //$NON-NLS-1$
}

lockLocation = getLockLocation();
boolean locked = lockLocation.lock();
if (locked || !wait)
    return locked;

//Someone else must have the directory locked
while (true) {
    if (monitor.isCanceled())
        return false;
    try {
        Thread.sleep(200); // 5x per second
    } catch (InterruptedException e) { /*ignore*/
    }
    locked = lockLocation.lock();
    if (locked)
        return true;
}
}

/**
 * Returns true if this instance of SimpleArtifactRepository holds the lock,
 * false otherwise.
 */
private boolean holdsLock() {
    return locked;
}

/**URIUtil.toURI(location.toURI)
 * Returns the location of the lock file.
 */
private Location getLockLocation() throws IOException {
    if (this.lockLocation != null)
        return this.lockLocation;

    URI repositoryLocation = getLocation();
    if (!URIUtil.isFileURI(repositoryLocation)) {
        throw new IOException("Cannot lock a non file based repository"); //$NON-NLS-1$
    }

    return Activator.getInstance().getLockLocation(repositoryLocation);
}

```

```

/**
 * Loads the repository from disk. This method will do nothing
 * if this instance of SimpleArtifactRepository holds the lock
 * because it will have loaded the repo when it acquired the lock.
 *
 * @param monitor
 */
private void load(IProgressMonitor monitor) {
    if (!holdsLock())
        doLoad(monitor);
    else
        monitor.done();
}

private void updateTimestamp() {
    if (!isModifiable())
        return;
    try {
        SimpleArtifactRepositoryFactory repositoryFactory = new SimpleArtifactRepositoryFactory();
        File localFile = repositoryFactory.getLocalFile(getLocation(), new NullProgressMonitor());
        long lastModified = localFile.lastModified();
        if (lastModified > 0)
            cacheTimestamp = lastModified;
    } catch (Exception e) {
        // Do nothing
    }
}

/**
 * Loads the repository from disk. If the last modified timestamp on the file <=
 * to our cache, then this method does nothing. Otherwise the artifact repository
 * on disk is loaded, and reconciled with this instance of the artifact repository.
 *
 * @param monitor
 */
private void doLoad(IProgressMonitor monitor) {

    SimpleArtifactRepositoryFactory repositoryFactory = new SimpleArtifactRepositoryFactory();
    IArtifactRepository repositoryOnDisk = null;
    try {
        SubMonitor subMonitor = SubMonitor.convert(monitor, 4);
        try {
            File localFile = repositoryFactory.getLocalFile(getLocation(), subMonitor.newChild(1));
            long lastModified = localFile.lastModified();
            if (lastModified <= cacheTimestamp)
                return;
            cacheTimestamp = lastModified;
        } catch (Exception e) {

```

```

    // Don't worry if we can't load
    return;
}
try {
    repositoryOnDisk = repositoryFactory.load(getLocation(),
IRepositoryManager.REPOSITORY_HINT_MODIFIABLE, subMonitor.newChild(3), false);
} catch (Exception e) {
    // Don't worry if we can't load
    return;
}

if (repositoryOnDisk != null && repositoryOnDisk instanceof SimpleArtifactRepository) {
    setName(repositoryOnDisk.getName());
    setType(repositoryOnDisk.getType());
    setVersion(repositoryOnDisk.getVersion());
    setLocation(repositoryOnDisk.getLocation()); // Will this ever change, should it?
    setDescription(repositoryOnDisk.getDescription());
    setProvider(repositoryOnDisk.getProvider());
    this.mappingRules = ((SimpleArtifactRepository) repositoryOnDisk).mappingRules;

    // Clear the existing properties
    // this.setProperties(new OrderedProperties());
    //
    Map<String, String> prop = repositoryOnDisk.getProperties();
    Set<Entry<String, String>> entrySet = prop.entrySet();
    for (Entry<String, String> entry : entrySet) {
        doSetProperty(entry.getKey(), entry.getValue(), new NullProgressMonitor(), false);
    }

    //
    this.artifactDescriptors = ((SimpleArtifactRepository) repositoryOnDisk).artifactDescriptors;
    this.artifactMap = ((SimpleArtifactRepository) repositoryOnDisk).artifactMap;
}
} finally {
    monitor.done();
}
return;
}

private void unlock() {
    if (!Activator.getInstance().enableArtifactLocking()) {
        holdsLock = false;
        return;
    }
    if (lockLocation != null) {
        // If we don't have the lock location, then we don't have the lock
        holdsLock = false;
        lockLocation.release();
    }
}

```

```

    }
    lockLocation = null;
    }

}

/*****
* Copyright (c) 2007, 2011 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*   Sonatype Inc - ongoing development
*   EclipseSource - ongoing development
*****/
package org.eclipse.equinox.internal.p2.artifact.repository.simple;

import java.io.*;
import java.net.URI;
import java.util.Map;
import java.util.jar.JarEntry;
import java.util.jar.JarInputStream;
import org.eclipse.core.runtime.*;
import org.eclipse.equinox.internal.p2.artifact.repository.Activator;
import org.eclipse.equinox.internal.p2.artifact.repository.Messages;
import org.eclipse.equinox.internal.p2.core.helpers.Tracing;
import org.eclipse.equinox.internal.p2.repository.CacheManager;
import org.eclipse.equinox.p2.core.ProvisionException;
import org.eclipse.equinox.p2.repository.IRepositoryManager;
import org.eclipse.equinox.p2.repository.artifact.IArtifactRepository;
import org.eclipse.equinox.p2.repository.artifact.spi.ArtifactRepositoryFactory;
import org.eclipse.osgi.util.NLS;

public class SimpleArtifactRepositoryFactory extends ArtifactRepositoryFactory {
    public static final String PROTOCOL_FILE = "file"; //$NON-NLS-1$
    private static final String JAR_EXTENSION = ".jar"; //$NON-NLS-1$
    private static final String XML_EXTENSION = ".xml"; //$NON-NLS-1$

    public SimpleArtifactRepositoryFactory() {
        super();
    }

    /**
     * Returns a file in the local file system that contains the contents of the
     * metadata repository at the given location.
     */

```



```

File getLocalFile(URI location, IProgressMonitor monitor) throws IOException, ProvisionException {
    File localFile = null;
    URI jarLocation = SimpleArtifactRepository.getActualLocation(location, true);
    URI xmlLocation = SimpleArtifactRepository.getActualLocation(location, false);
    // If the repository is local, we can return the repository file directly
    if (PROTOCOL_FILE.equals(xmlLocation.getScheme())) {
        //look for a compressed local file
        localFile = URIUtil.toFile(jarLocation);
        if (localFile.exists())
            return localFile;
        //look for an uncompressed local file
        localFile = URIUtil.toFile(xmlLocation);
        if (localFile.exists())
            return localFile;
        String msg = NLS.bind(Messages.io_failedRead, location);
        throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID,
ProvisionException.REPOSITORY_NOT_FOUND, msg, null));
    }
    // file is not local, create a cache of the repository metadata
    CacheManager cache = (CacheManager) getAgent().getService(CacheManager.SERVICE_NAME);
    if (cache == null)
        throw new IllegalArgumentException("Cache manager service not available"); //$NON-NLS-1$
    localFile = cache.createCache(location, SimpleArtifactRepository.CONTENT_FILENAME, monitor);
    if (localFile == null) {
        // there is no remote file in either form - this should not really happen as
        // createCache should bail out with exception if something is wrong. This is an internal
        // error.
        throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID,
ProvisionException.REPOSITORY_NOT_FOUND, Messages.repoMan_internalError, null));
    }
    return localFile;
}

public IArtifactRepository load(URI location, int flags, IProgressMonitor monitor) throws ProvisionException {
    return load(location, flags, monitor, true);
}

IArtifactRepository load(URI location, int flags, IProgressMonitor monitor, boolean acquireLock) throws
ProvisionException {
    long time = 0;
    final String debugMsg = "Restoring artifact repository "; //$NON-NLS-1$
    if (Tracing.DEBUG_METADATA_PARSING) {
        Tracing.debug(debugMsg + location);
        time = -System.currentTimeMillis();
    }
    SubMonitor sub = SubMonitor.convert(monitor, 400);
    try {
        File localFile = getLocalFile(location, sub.newChild(300));

```

```

InputStream inStream = new BufferedInputStream(new FileInputStream(localFile));
JarInputStream jarStream = null;
try {
    //if reading from a jar, obtain a stream on the entry with the actual contents
    if (localFile.getAbsolutePath().endsWith(JAR_EXTENSION)) {
        jarStream = new JarInputStream(inStream);
        JarEntry jarEntry = jarStream.getNextJarEntry();
        String entryName = SimpleArtifactRepository.CONTENT_FILENAME + XML_EXTENSION;
        while (jarEntry != null && (!entryName.equals(jarEntry.getName()))) {
            jarEntry = jarStream.getNextJarEntry();
        }
        //if there is a jar but the entry is missing or invalid, treat this as an invalid repository
        if (jarEntry == null)
            throw new IOException(NLS.bind(Messages.io_invalidLocation, location));
    }
    //parse the repository descriptor file
    sub.setWorkRemaining(100);
    InputStream descriptorStream = jarStream != null ? jarStream : inStream;
    SimpleArtifactRepositoryIO io = new SimpleArtifactRepositoryIO(getAgent());
    SimpleArtifactRepository result = (SimpleArtifactRepository) io.read(location, descriptorStream,
sub.newChild(100), acquireLock);
    result.initializeAfterLoad(location);
    if (result != null && (flags & IRepositoryManager.REPOSITORY_HINT_MODIFIABLE) > 0 &&
!result.isModifiable())
        return null;
    if (Tracing.DEBUG_METADATA_PARSING) {
        time += System.currentTimeMillis();
        Tracing.debug(debugMsg + "time (ms): " + time); //$NON-NLS-1$
    }
    return result;
} finally {
    safeClose(jarStream);
    safeClose(inStream);
}
} catch (FileNotFoundException e) {
    String msg = NLS.bind(Messages.io_failedRead, location);
    throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID,
ProvisionException.REPOSITORY_NOT_FOUND, msg, e));
} catch (IOException e) {
    String msg = NLS.bind(Messages.io_failedRead, location);
    throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID,
ProvisionException.REPOSITORY_FAILED_READ, msg, e));
} finally {
    if (monitor != null)
        monitor.done();
}
}
}

```

```

public IArtifactRepository create(URI location, String name, String type, Map<String, String> properties) {
    return new SimpleArtifactRepository(getAgent(), name, location, properties);
}

/**
 * Closes a stream, ignoring any secondary exceptions
 */
private void safeClose(InputStream stream) {
    if (stream == null)
        return;
    try {
        stream.close();
    } catch (IOException e) {
        //ignore
    }
}

}

/*****
 * Copyright (c) 2007, 2011 IBM Corporation and others.
 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/
package org.eclipse.equinox.internal.p2.artifact.repository.simple;

import java.io.*;
import java.net.URI;
import java.util.*;
import javax.xml.parsers.ParserConfigurationException;
import org.eclipse.core.runtime.*;
import org.eclipse.equinox.internal.p2.artifact.repository.Activator;
import org.eclipse.equinox.internal.p2.artifact.repository.Messages;
import org.eclipse.equinox.internal.p2.core.helpers.LogHelper;
import org.eclipse.equinox.internal.p2.core.helpers.OrderedProperties;
import org.eclipse.equinox.internal.p2.metadata.ArtifactKey;
import org.eclipse.equinox.internal.p2.persistence.XMLParser;
import org.eclipse.equinox.internal.p2.persistence.XMLWriter;
import org.eclipse.equinox.p2.core.IProvisioningAgent;
import org.eclipse.equinox.p2.core.ProvisionException;
import org.eclipse.equinox.p2.metadata.*;
import org.eclipse.equinox.p2.repository.artifact.IArtifactRepository;
import org.eclipse.equinox.p2.repository.artifact.IProcessingStepDescriptor;
import org.eclipse.equinox.p2.repository.artifact.spi.ProcessingStepDescriptor;
import org.eclipse.osgi.service.datalocation.Location;

```

```

import org.eclipse.osgi.util.NLS;
import org.osgi.framework.BundleContext;
import org.xml.sax.*;

/**
 * This class reads and writes artifact repository metadata
 * (e.g. table of contents files);
 *
 * This class is not used for reading or writing the actual artifacts.
 */

// TODO: Should a registration/factory mechanism be supported
// for getting a repository reader/writer given a repository type
public class SimpleArtifactRepositoryIO {

    private final IProvisioningAgent agent;
    private Location lockLocation = null;

    public SimpleArtifactRepositoryIO(IProvisioningAgent agent) {
        this.agent = agent;
    }

    /**
     * Writes the given artifact repository to the stream.
     * This method performs buffering, and closes the stream when finished.
     */
    public void write(SimpleArtifactRepository repository, OutputStream output) {
        OutputStream bufferedOutput = null;
        try {
            try {
                bufferedOutput = new BufferedOutputStream(output);
                Writer repositoryWriter = new Writer(bufferedOutput);
                repositoryWriter.write(repository);
            } finally {
                if (bufferedOutput != null) {
                    bufferedOutput.close();
                }
            }
        } catch (IOException ioe) {
            // TODO shouldn't this throw a core exception?
            ioe.printStackTrace();
        }
    }

    /**
     * Reads the artifact repository from the given stream,
     * and returns the contained array of abstract artifact repositories.
     */

```

```

* This method performs buffering, and closes the stream when finished.
*/
public IArtifactRepository read(URI location, InputStream input, IProgressMonitor monitor, boolean acquireLock)
throws ProvisionException {
    BufferedInputStream bufferedInput = null;
    try {
        try {
            bufferedInput = new BufferedInputStream(input);
            Parser repositoryParser = new Parser(Activator.getContext(), Activator.ID);
            repositoryParser.setErrorContext(location.toURL().toExternalForm());
            IStatus result = null;
            boolean lock = false;
            try {
                if (canLock(location) && acquireLock) {
                    lock = lock(location, true, monitor);
                    if (lock) {
                        repositoryParser.parse(input);
                        result = repositoryParser.getStatus();
                    } else {
                        result = Status.CANCEL_STATUS;
                    }
                } else {
                    repositoryParser.parse(input);
                    result = repositoryParser.getStatus();
                }
            } finally {
                if (lock)
                    unlock(location);
            }

            switch (result.getSeverity()) {
                case IStatus.CANCEL :
                    throw new OperationCanceledException();
                case IStatus.ERROR :
                    throw new ProvisionException(result);
                case IStatus.WARNING :
                case IStatus.INFO :
                    LogHelper.log(result);
            }
            SimpleArtifactRepository repository = repositoryParser.getRepository();
            if (repository == null)
                throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID,
ProvisionException.REPOSITORY_FAILED_READ, Messages.io_parseError, null));
            return repository;
        } finally {
            if (bufferedInput != null)
                bufferedInput.close();
        }
    }
}

```

```

    } catch (IOException ioe) {
        String msg = NLS.bind(Messages.io_failedRead, location);
        throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID,
ProvisionException.REPOSITORY_FAILED_READ, msg, ioe));
    }
}

private synchronized boolean canLock(Uri repositoryLocation) {
    if (!URIUtil.isFileURI(repositoryLocation))
        return false;

    try {
        lockLocation = getLockLocation(repositoryLocation);
    } catch (IOException e) {
        return false;
    }
    return !lockLocation.isReadOnly();
}

private synchronized boolean lock(Uri repositoryLocation, boolean wait, IProgressMonitor monitor) throws
IOException {
    if (!Activator.getInstance().enableArtifactLocking())
        return true; // Don't use locking

    lockLocation = getLockLocation(repositoryLocation);
    boolean locked = lockLocation.lock();
    if (locked || !wait)
        return locked;

    //Someone else must have the directory locked
    while (true) {
        if (monitor.isCanceled())
            return false;
        try {
            Thread.sleep(200); // 5x per second
        } catch (InterruptedException e) { /*ignore*/
        }
        locked = lockLocation.lock();
        if (locked)
            return true;
    }
}

private void unlock(Uri repositoryLocation) {
    if (!Activator.getInstance().enableArtifactLocking())
        return;

    if (lockLocation != null) {

```

```

    lockLocation.release();
}
}

/**
 * Returns the location of the lock file.
 */
private Location getLockLocation(URI repositoryLocation) throws IOException {
    if (!URIUtil.isFileURI(repositoryLocation)) {
        throw new IOException("Cannot lock a non file based repository"); //$NON-NLS-1$
    }
    return Activator.getInstance().getLockLocation(repositoryLocation);
}

private interface XMLConstants extends org.eclipse.equinox.internal.p2.persistence.XMLConstants {

    // Constants defining the structure of the XML for a SimpleArtifactRepository

    // A format version number for simple artifact repository XML.
    public static final Version COMPATIBLE_VERSION = Version.createOSGi(1, 0, 0);
    public static final Version CURRENT_VERSION = Version.createOSGi(1, 1, 0);
    public static final VersionRange XML_TOLERANCE = new VersionRange(COMPATIBLE_VERSION, true,
Version.createOSGi(2, 0, 0), false);

    // Constants for processing instructions
    public static final String PI_REPOSITORY_TARGET = "artifactRepository"; //$NON-NLS-1$
    public static XMLWriter.ProcessingInstruction[] PI_DEFAULTS = new XMLWriter.ProcessingInstruction[]
{XMLWriter.ProcessingInstruction.makeTargetVersionInstruction(PI_REPOSITORY_TARGET,
CURRENT_VERSION)};

    // Constants for artifact repository elements
    public static final String REPOSITORY_ELEMENT = "repository"; //$NON-NLS-1$
    public static final String REPOSITORY_PROPERTIES_ELEMENT = "repositoryProperties"; //$NON-NLS-1$
    public static final String MAPPING_RULES_ELEMENT = "mappings"; //$NON-NLS-1$
    public static final String MAPPING_RULE_ELEMENT = "rule"; //$NON-NLS-1$
    public static final String ARTIFACTS_ELEMENT = "artifacts"; //$NON-NLS-1$
    public static final String ARTIFACT_ELEMENT = "artifact"; //$NON-NLS-1$
    public static final String PROCESSING_STEPS_ELEMENT = "processing"; //$NON-NLS-1$
    public static final String PROCESSING_STEP_ELEMENT = "step"; //$NON-NLS-1$

    public static final String MAPPING_RULE_FILTER_ATTRIBUTE = "filter"; //$NON-NLS-1$
    public static final String MAPPING_RULE_OUTPUT_ATTRIBUTE = "output"; //$NON-NLS-1$

    public static final String ARTIFACT_CLASSIFIER_ATTRIBUTE = CLASSIFIER_ATTRIBUTE;

    public static final String STEP_DATA_ATTRIBUTE = "data"; //$NON-NLS-1$
    public static final String STEP_REQUIRED_ATTRIBUTE = "required"; //$NON-NLS-1$
}

```

```

// XML writer for a SimpleArtifactRepository
protected class Writer extends XMLWriter implements XMLConstants {

    public Writer(OutputStream output) throws IOException {
        super(output, PI_DEFAULTS);
    }

    /**
     * Write the given artifact repository to the output stream.
     */
    public void write(SimpleArtifactRepository repository) {
        start(REPOSITORY_ELEMENT);
        attribute(NAME_ATTRIBUTE, repository.getName());
        attribute(TYPE_ATTRIBUTE, repository.getType());
        attribute(VERSION_ATTRIBUTE, repository.getVersion());
        attributeOptional(PROVIDER_ATTRIBUTE, repository.getProvider());
        attributeOptional(DESCRIPTION_ATTRIBUTE, repository.getDescription()); // TODO: could be cdata?

        writeProperties(repository.getProperties());
        writeMappingRules(repository.getRules());
        writeArtifacts(repository.getDescriptors());

        end(REPOSITORY_ELEMENT);
        flush();
    }

    private void writeMappingRules(String[][] rules) {
        if (rules.length > 0) {
            start(MAPPING_RULES_ELEMENT);
            attribute(COLLECTION_SIZE_ATTRIBUTE, rules.length);
            for (int i = 0; i < rules.length; i++) {
                start(MAPPING_RULE_ELEMENT);
                attribute(MAPPING_RULE_FILTER_ATTRIBUTE, rules[i][0]);
                attribute(MAPPING_RULE_OUTPUT_ATTRIBUTE, rules[i][1]);
                end(MAPPING_RULE_ELEMENT);
            }
            end(MAPPING_RULES_ELEMENT);
        }
    }

    private void writeArtifacts(Set<SimpleArtifactDescriptor> artifactDescriptors) {
        start(ARTIFACTS_ELEMENT);
        attribute(COLLECTION_SIZE_ATTRIBUTE, artifactDescriptors.size());
        for (SimpleArtifactDescriptor descriptor : artifactDescriptors) {
            IArtifactKey key = descriptor.getArtifactKey();
            start(ARTIFACT_ELEMENT);
            attribute(ARTIFACT_CLASSIFIER_ATTRIBUTE, key.getClassifier());
        }
    }
}

```



```

attribute(ID_ATTRIBUTE, key.getId());
attribute(VERSION_ATTRIBUTE, key.getVersion());
writeProcessingSteps(descriptor.getProcessingSteps());
writeProperties(descriptor.getProperties());
writeProperties(REPOSITORY_PROPERTIES_ELEMENT, descriptor.getRepositoryProperties());
end(ARTIFACT_ELEMENT);
}
end(ARTIFACTS_ELEMENT);
}

private void writeProcessingSteps(IProcessingStepDescriptor[] processingSteps) {
if (processingSteps.length > 0) {
start(PROCESSING_STEPS_ELEMENT);
attribute(COLLECTION_SIZE_ATTRIBUTE, processingSteps.length);
for (int i = 0; i < processingSteps.length; i++) {
start(PROCESSING_STEP_ELEMENT);
attribute(ID_ATTRIBUTE, processingSteps[i].getProcessorId());
attribute(STEP_DATA_ATTRIBUTE, processingSteps[i].getData());
attribute(STEP_REQUIRED_ATTRIBUTE, processingSteps[i].isRequired());
end(PROCESSING_STEP_ELEMENT);
}
end(PROCESSING_STEPS_ELEMENT);
}
}
}

/*
* Parser for the contents of a SimpleArtifactRepository,
* as written by the Writer class.
*/
private class Parser extends XMLParser implements XMLConstants {

private SimpleArtifactRepository theRepository = null;

public Parser(BundleContext context, String bundleId) {
super(context, bundleId);
}

public synchronized void parse(InputStream stream) throws IOException {
this.status = null;
try {
// TODO: currently not caching the parser since we make no assumptions
// or restrictions on concurrent parsing
getParser();
RepositoryHandler repositoryHandler = new RepositoryHandler();
xmlReader.setContentHandler(new RepositoryDocHandler(REPOSITORY_ELEMENT, repositoryHandler));
xmlReader.parse(new InputSource(stream));
if (isValidXML()) {

```

```

    theRepository = repositoryHandler.getRepository();
}
} catch (SAXException e) {
    throw new IOException(e.getMessage());
} catch (ParserConfigurationException e) {
    throw new IOException(e.getMessage());
} finally {
    stream.close();
}
}

public SimpleArtifactRepository getRepository() {
    return theRepository;
}

protected Object getRootObject() {
    return theRepository;
}

private final class RepositoryDocHandler extends DocHandler {

    public RepositoryDocHandler(String rootName, RootHandler rootHandler) {
        super(rootName, rootHandler);
    }

    public void processingInstruction(String target, String data) throws SAXException {
        if (PI_REPOSITORY_TARGET.equals(target)) {
            // TODO: should the root handler be constructed based on class
            // via an extension registry mechanism?
            // String clazz = extractPIClass(data);
            // TODO: version tolerance by extension
            Version repositoryVersion = extractPIVersion(target, data);
            if (!XML_TOLERANCE.isIncluded(repositoryVersion)) {
                throw new SAXException(NLS.bind(Messages.io_incompatibleVersion, repositoryVersion, XML_TOLERANCE));
            }
        }
    }
}

private final class RepositoryHandler extends RootHandler {

    private final String[] required = new String[] {NAME_ATTRIBUTE, TYPE_ATTRIBUTE,
VERSION_ATTRIBUTE};
    private final String[] optional = new String[] {DESCRIPTION_ATTRIBUTE, PROVIDER_ATTRIBUTE};

    private String[] attrValues = new String[required.length + optional.length];

```

```

private MappingRulesHandler mappingRulesHandler = null;
private PropertiesHandler propertiesHandler = null;
private ArtifactsHandler artifactsHandler = null;

private SimpleArtifactRepository repository = null;

public RepositoryHandler() {
    super();
}

public SimpleArtifactRepository getRepository() {
    return repository;
}

protected void handleRootAttributes(Attributes attributes) {
    attrValues = parseAttributes(attributes, required, optional);
    attrValues[2] = checkVersion(REPOSITORY_ELEMENT, VERSION_ATTRIBUTE, attrValues[2]).toString();
}

public void startElement(String name, Attributes attributes) {
    if (MAPPING_RULES_ELEMENT.equals(name)) {
        if (mappingRulesHandler == null) {
            mappingRulesHandler = new MappingRulesHandler(this, attributes);
        } else {
            duplicateElement(this, name, attributes);
        }
    } else if (ARTIFACTS_ELEMENT.equals(name)) {
        if (artifactsHandler == null) {
            artifactsHandler = new ArtifactsHandler(this, attributes);
        } else {
            duplicateElement(this, name, attributes);
        }
    } else if (PROPERTIES_ELEMENT.equals(name)) {
        if (propertiesHandler == null) {
            propertiesHandler = new PropertiesHandler(this, attributes);
        } else {
            duplicateElement(this, name, attributes);
        }
    } else {
        invalidElement(name, attributes);
    }
}

protected void finished() {
    if (isValidXML()) {
        String[][] mappingRules = (mappingRulesHandler == null ? new String[0][0] //
            : mappingRulesHandler.getMappingRules());
        Map<String, String> properties = (propertiesHandler == null ? new OrderedProperties(0) //

```

```

    : propertiesHandler.getProperties());
    Set<SimpleArtifactDescriptor> artifacts = (artifactsHandler == null ? new HashSet<SimpleArtifactDescriptor>(0) //
    : artifactsHandler.getArtifacts());
    repository = new SimpleArtifactRepository(agent, attrValues[0], attrValues[1], attrValues[2], attrValues[3], //
    attrValues[4], artifacts, mappingRules, properties);
}
}
}

protected class MappingRulesHandler extends AbstractHandler {

    private List<String[]> mappingRules;

    public MappingRulesHandler(AbstractHandler parentHandler, Attributes attributes) {
        super(parentHandler, MAPPING_RULES_ELEMENT);
        String size = parseOptionalAttribute(attributes, COLLECTION_SIZE_ATTRIBUTE);
        mappingRules = (size != null ? new ArrayList<String[]>(new Integer(size).intValue()) : new
ArrayList<String[]>(4));
    }

    public String[][] getMappingRules() {
        String[][] rules = new String[mappingRules.size()][2];
        for (int index = 0; index < mappingRules.size(); index++) {
            String[] ruleAttributes = mappingRules.get(index);
            rules[index] = ruleAttributes;
        }
        return rules;
    }

    public void startElement(String name, Attributes attributes) {
        if (name.equals(MAPPING_RULE_ELEMENT)) {
            new MappingRuleHandler(this, attributes, mappingRules);
        } else {
            invalidElement(name, attributes);
        }
    }
}

protected class MappingRuleHandler extends AbstractHandler {

    private final String[] required = new String[] {MAPPING_RULE_FILTER_ATTRIBUTE,
MAPPING_RULE_OUTPUT_ATTRIBUTE};

    public MappingRuleHandler(AbstractHandler parentHandler, Attributes attributes, List<String[]> mappingRules) {
        super(parentHandler, MAPPING_RULE_ELEMENT);
        mappingRules.add(parseRequiredAttributes(attributes, required));
    }
}

```

```

public void startElement(String name, Attributes attributes) {
    invalidElement(name, attributes);
}
}

protected class ArtifactsHandler extends AbstractHandler {

    private Set<SimpleArtifactDescriptor> artifacts;

    public ArtifactsHandler(AbstractHandler parentHandler, Attributes attributes) {
        super(parentHandler, ARTIFACTS_ELEMENT);
        String size = parseOptionalAttribute(attributes, COLLECTION_SIZE_ATTRIBUTE);
        artifacts = (size != null ? new LinkedHashSet<SimpleArtifactDescriptor>(new Integer(size).intValue()) : new
LinkedHashSet<SimpleArtifactDescriptor>(4));
    }

    public Set<SimpleArtifactDescriptor> getArtifacts() {
        return artifacts;
    }

    public void startElement(String name, Attributes attributes) {
        if (name.equals(ARTIFACT_ELEMENT)) {
            new ArtifactHandler(this, attributes, artifacts);
        } else {
            invalidElement(name, attributes);
        }
    }
}

protected class ArtifactHandler extends AbstractHandler {

    private final String[] required = new String[] {ARTIFACT_CLASSIFIER_ATTRIBUTE, ID_ATTRIBUTE,
VERSION_ATTRIBUTE};

    private Set<SimpleArtifactDescriptor> artifacts;
    SimpleArtifactDescriptor currentArtifact = null;

    private PropertiesHandler propertiesHandler = null;
    private PropertiesHandler repositoryPropertiesHandler = null;
    private ProcessingStepsHandler processingStepsHandler = null;

    public ArtifactHandler(AbstractHandler parentHandler, Attributes attributes, Set<SimpleArtifactDescriptor>
artifacts) {
        super(parentHandler, ARTIFACT_ELEMENT);
        this.artifacts = artifacts;
        String[] values = parseRequiredAttributes(attributes, required);
        Version version = checkVersion(ARTIFACT_ELEMENT, VERSION_ATTRIBUTE, values[2]);
        // TODO: resolve access restriction on ArtifactKey construction

```

```

currentArtifact = new SimpleArtifactDescriptor(new ArtifactKey(values[0], values[1], version));
}

public void startElement(String name, Attributes attributes) {
    if (PROCESSING_STEPS_ELEMENT.equals(name)) {
        if (processingStepsHandler == null) {
            processingStepsHandler = new ProcessingStepsHandler(this, attributes);
        } else {
            duplicateElement(this, name, attributes);
        }
    } else if (PROPERTIES_ELEMENT.equals(name)) {
        if (propertiesHandler == null) {
            propertiesHandler = new PropertiesHandler(this, attributes);
        } else {
            duplicateElement(this, name, attributes);
        }
    } else if (REPOSITORY_PROPERTIES_ELEMENT.equals(name)) {
        if (repositoryPropertiesHandler == null) {
            repositoryPropertiesHandler = new PropertiesHandler(this, attributes);
        } else {
            duplicateElement(this, name, attributes);
        }
    } else {
        invalidElement(name, attributes);
    }
}

protected void finished() {
    if (isValidXML() && currentArtifact != null) {
        Map<String, String> properties = (propertiesHandler == null ? new OrderedProperties(0) :
propertiesHandler.getProperties());
        currentArtifact.addProperties(properties);

        properties = (repositoryPropertiesHandler == null ? new OrderedProperties(0) :
repositoryPropertiesHandler.getProperties());
        currentArtifact.addRepositoryProperties(properties);

        IProcessingStepDescriptor[] processingSteps = (processingStepsHandler == null ? new ProcessingStepDescriptor[0]
//
        : processingStepsHandler.getProcessingSteps());
        currentArtifact.setProcessingSteps(processingSteps);
        artifacts.add(currentArtifact);
    }
}

protected class ProcessingStepsHandler extends AbstractHandler {

```

```

private List<IProcessingStepDescriptor> processingSteps;

public ProcessingStepsHandler(AbstractHandler parentHandler, Attributes attributes) {
    super(parentHandler, PROCESSING_STEPS_ELEMENT);
    String size = parseOptionalAttribute(attributes, COLLECTION_SIZE_ATTRIBUTE);
    processingSteps = (size != null ? new ArrayList<IProcessingStepDescriptor>(new Integer(size).intValue()) : new
ArrayList<IProcessingStepDescriptor>(4));
}

public IProcessingStepDescriptor[] getProcessingSteps() {
    return processingSteps.toArray(new ProcessingStepDescriptor[processingSteps.size()]);
}

public void startElement(String name, Attributes attributes) {
    if (name.equals(PROCESSING_STEP_ELEMENT)) {
        new ProcessingStepHandler(this, attributes, processingSteps);
    } else {
        invalidElement(name, attributes);
    }
}

protected class ProcessingStepHandler extends AbstractHandler {

    private final String[] required = new String[] {ID_ATTRIBUTE, STEP_REQUIRED_ATTRIBUTE};
    private final String[] optional = new String[] {STEP_DATA_ATTRIBUTE};

    public ProcessingStepHandler(AbstractHandler parentHandler, Attributes attributes,
List<IProcessingStepDescriptor> processingSteps) {
        super(parentHandler, PROCESSING_STEP_ELEMENT);
        String[] attributeValues = parseAttributes(attributes, required, optional);
        processingSteps.add(new ProcessingStepDescriptor(attributeValues[0], attributeValues[2],
checkBoolean(PROCESSING_STEP_ELEMENT, STEP_REQUIRED_ATTRIBUTE,
attributeValues[1]).booleanValue()));
    }

    public void startElement(String name, Attributes attributes) {
        invalidElement(name, attributes);
    }

    protected String getErrorMessage() {
        return Messages.io_parseError;
    }

    public String toString() {
        // TODO:
        return null;
    }
}

```

}

}

}

1.528 org.eclipse.equinox.p2.console

1.0.300.v20110502-1955

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1.529 org.eclipse.equinox.p2.core

2.1.0.v20110502-1955

1.529.1 Available under license :

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1.530 org.eclipse.equinox.p2.director

2.1.0.v20110504-1715

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```

*   IBM Corporation - initial API and implementation
*   Sonatype, Inc. - ongoing development
*****/
package org.eclipse.equinox.internal.p2.director;

import java.util.*;
import org.eclipse.core.runtime.*;
import org.eclipse.equinox.internal.p2.core.helpers.LogHelper;
import org.eclipse.equinox.internal.p2.core.helpers.Tracing;
import org.eclipse.equinox.internal.p2.metadata.InstallableUnit;
import org.eclipse.equinox.internal.p2.metadata.InstallableUnitPatch;
import org.eclipse.equinox.p2.metadata.*;
import org.eclipse.equinox.p2.metadata.expression.IMatchExpression;
import org.eclipse.equinox.p2.query.*;
import org.eclipse.osgi.util.NLS;

public class Slicer {
    private static boolean DEBUG = false;
    private final IQueryable<IInstallableUnit> possibilites;
    private final boolean considerMetaRequirements;
    protected final IInstallableUnit selectionContext;
    private final Map<String, Map<Version, IInstallableUnit>> slice; //The IUs that have been considered to be part of
the problem
    private final MultiStatus result;

    private LinkedList<IInstallableUnit> toProcess;
    private Set<IInstallableUnit> considered; //IUs to add to the slice
    private Set<IInstallableUnit> nonGreedyIUs = new HashSet<IInstallableUnit>(); //IUs that are brought in by non
greedy dependencies

    public Slicer(IQueryable<IInstallableUnit> input, Map<String, String> context, boolean
considerMetaRequirements) {
        this(input, InstallableUnit.contextIU(context), considerMetaRequirements);
    }

    public Slicer(IQueryable<IInstallableUnit> possibilites, IInstallableUnit selectionContext, boolean
considerMetaRequirements) {
        this.possibilites = possibilites;
        this.selectionContext = selectionContext;
        this.considerMetaRequirements = considerMetaRequirements;
        slice = new HashMap<String, Map<Version, IInstallableUnit>>();
        result = new MultiStatus(DirectorActivator.PI_DIRECTOR, IStatus.OK,
Messages.Planner_Problems_resolving_plan, null);
    }

    public IQueryable<IInstallableUnit> slice(IInstallableUnit[] ius, IProgressMonitor monitor) {
        try {
            long start = 0;

```

```

if (DEBUG) {
    start = System.currentTimeMillis();
    System.out.println("Start slicing: " + start); //$NON-NLS-1$
}

validateInput(ius);
considered = new HashSet<IInstallableUnit>(Arrays.asList(ius));
toProcess = new LinkedList<IInstallableUnit>(considered);
while (!toProcess.isEmpty()) {
    if (monitor.isCanceled()) {
        result.merge(Status.CANCEL_STATUS);
        throw new OperationCanceledException();
    }
    processIU(toProcess.removeFirst());
}
computeNonGreedyIUs();
if (DEBUG) {
    long stop = System.currentTimeMillis();
    System.out.println("Slicing complete: " + (stop - start)); //$NON-NLS-1$
}
} catch (IllegalStateException e) {
    result.add(new Status(IStatus.ERROR, DirectorActivator.PI_DIRECTOR, e.getMessage(), e));
}
if (Tracing.DEBUG && result.getSeverity() != IStatus.OK)
    LogHelper.log(result);
if (result.getSeverity() == IStatus.ERROR)
    return null;
return new QueryableArray(considered.toArray(new IInstallableUnit[considered.size()]));
}

private void computeNonGreedyIUs() {
    IQueryable<IInstallableUnit> queryable = new QueryableArray(considered.toArray(new
IInstallableUnit[considered.size()]));
    Iterator<IInstallableUnit> it = queryable.query(QueryUtil.ALL_UNITS, new NullProgressMonitor()).iterator();
    while (it.hasNext()) {
        Collection<IRequirement> reqs = getRequirements(it.next().unresolved());
        for (IRequirement req : reqs) {
            if (!isApplicable(req))
                continue;

            if (!isGreedy(req)) {
                nonGreedyIUs.addAll(queryable.query(QueryUtil.createMatchQuery(req.getMatches()), null).toUnmodifiableSet());
            }
        }
    }
}

public MultiStatus getStatus() {

```



```

return result;
}

//This is a shortcut to simplify the error reporting when the filter of the ius we are being asked to install does not
pass
private void validateInput(IInstallableUnit[] ius) {
    for (int i = 0; i < ius.length; i++) {
        if (!isApplicable(ius[i]))
            throw new IllegalStateException(NLS.bind(Messages.Explanation_missingRootFilter, ius[i]));
    }
}

// Check whether the requirement is applicable
protected boolean isApplicable(IRequirement req) {
    IMatchExpression<IInstallableUnit> filter = req.getFilter();
    return filter == null || filter.isMatch(selectionContext);
}

protected boolean isApplicable(IInstallableUnit iu) {
    IMatchExpression<IInstallableUnit> filter = iu.getFilter();
    return filter == null || filter.isMatch(selectionContext);
}

protected void processIU(IInstallableUnit iu) {
    iu = iu.unresolved();

    Map<Version, IInstallableUnit> iuSlice = slice.get(iu.getId());
    if (iuSlice == null) {

        iuSlice = new HashMap<Version, IInstallableUnit>();
        slice.put(iu.getId(), iuSlice);
    }
    iuSlice.put(iu.getVersion(), iu);
    if (!isApplicable(iu)) {
        return;
    }

    Collection<IRequirement> reqs = getRequirements(iu);
    if (reqs.isEmpty())
        return;
    for (IRequirement req : reqs) {
        if (!isApplicable(req))
            continue;

        if (!isGreedy(req)) {
            continue;
        }
    }
}

```

```

    expandRequirement(iu, req);
}
}

protected boolean isGreedy(IRequirement req) {
    return req.isGreedy();
}

private Collection<IRequirement> getRequirements(IInstallableUnit iu) {
    boolean isPatch = iu instanceof IInstallableUnitPatch;
    boolean isFragment = iu instanceof IInstallableUnitFragment;
    //Short-circuit for the case of an IInstallableUnit
    if ((!isFragment) && (!isPatch) && iu.getMetaRequirements().size() == 0)
        return iu.getRequirements();

    ArrayList<IRequirement> aggregatedRequirements = new ArrayList<IRequirement>(iu.getRequirements().size() +
    iu.getMetaRequirements().size() + (isFragment ? ((IInstallableUnitFragment) iu).getHost().size() : 0) + (isPatch ?
    ((IInstallableUnitPatch) iu).getRequirementsChange().size() : 0));
    aggregatedRequirements.addAll(iu.getRequirements());

    if (iu instanceof IInstallableUnitFragment) {
        aggregatedRequirements.addAll(((IInstallableUnitFragment) iu).getHost());
    }

    if (iu instanceof IInstallableUnitPatch) {
        IInstallableUnitPatch patchIU = (IInstallableUnitPatch) iu;
        List<IRequirementChange> changes = patchIU.getRequirementsChange();
        for (int i = 0; i < changes.size(); i++)
            aggregatedRequirements.add(changes.get(i).newValue());
    }

    if (considerMetaRequirements)
        aggregatedRequirements.addAll(iu.getMetaRequirements());
    return aggregatedRequirements;
}

private void expandRequirement(IInstallableUnit iu, IRequirement req) {
    if (req.getMax() == 0)
        return;
    IQueryResult<IInstallableUnit> matches = possibilites.query(QueryUtil.createMatchQuery(req.getMatches(), null));
    int validMatches = 0;
    for (Iterator<IInstallableUnit> iterator = matches.iterator(); iterator.hasNext();) {
        IInstallableUnit match = iterator.next();
        if (!isApplicable(match))
            continue;
        validMatches++;
        Map<Version, IInstallableUnit> iuSlice = slice.get(match.getId());
        if (iuSlice == null || !iuSlice.containsKey(match.getVersion()))

```

```

    consider(match);
}

if (validMatches == 0) {
    if (req.getMin() == 0) {
        if (DEBUG)
            System.out.println("No IU found to satisfy optional dependency of " + iu + " on req " + req); //$NON-NLS-
1$//$NON-NLS-2$
    } else {
        result.add(new Status(IStatus.WARNING, DirectorActivator.PI_DIRECTOR,
NLS.bind(Messages.Planner_Unsatisfied_dependency, iu, req)));
    }
}
}

private void consider(IInstallableUnit match) {
    if (considered.add(match))
        toProcess.addLast(match);
}

Set<IInstallableUnit> getNonGreedyIUs() {
    return nonGreedyIUs;
}
}

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 *
 * Contributors:
 * IBM Corporation - initial API and implementation
 * Genuitec - bug fixes
 * Sonatype, Inc. - ongoing development
 *****/
package org.eclipse.equinox.internal.p2.director;

import java.lang.reflect.Method;
import java.net.URI;
import java.util.*;
import org.eclipse.core.runtime.*;
import org.eclipse.equinox.internal.p2.core.helpers.LogHelper;
import org.eclipse.equinox.internal.p2.core.helpers.Tracing;
import org.eclipse.equinox.internal.p2.director.Explanation.MissingIU;
import org.eclipse.equinox.internal.p2.metadata.IRequiredCapability;
import org.eclipse.equinox.internal.p2.metadata.query.UpdateQuery;
import org.eclipse.equinox.internal.p2.rollback.FormerState;
import org.eclipse.equinox.internal.provisional.p2.director.*;

```

```

import org.eclipse.equinox.p2.core.IAgentLocation;
import org.eclipse.equinox.p2.core.IProvisioningAgent;
import org.eclipse.equinox.p2.engine.*;
import org.eclipse.equinox.p2.engine.query.IUProfilePropertyQuery;
import org.eclipse.equinox.p2.metadata.*;
import org.eclipse.equinox.p2.metadata.MetadataFactory.InstallableUnitDescription;
import org.eclipse.equinox.p2.planner.*;
import org.eclipse.equinox.p2.query.*;
import org.eclipse.osgi.util.NLS;

public class SimplePlanner implements IPlanner {
    private static boolean DEBUG = Tracing.DEBUG_PLANNER_OPERANDS;

    private static final int ExpandWork = 12;
    private static final String INCLUDE_PROFILE_IUS = "org.eclipse.equinox.p2.internal.profileius"; //$NON-NLS-1$
    private static final String INCLUSION_RULES = "org.eclipse.equinox.p2.internal.inclusion.rules"; //$NON-NLS-1$
    private static final String ID_IU_FOR_ACTIONS = "org.eclipse.equinox.p2.engine.actions.root"; //$NON-NLS-1$
    private static final String EXPLANATION = "org.eclipse.equinox.p2.director.explain"; //$NON-NLS-1$
    private static final String CONSIDER_METAREQUIREMENTS =
"org.eclipse.equinox.p2.planner.resolveMetaRequirements"; //$NON-NLS-1$

    static final int UNSATISFIABLE = 1; //status code indicating that the problem is not satisfiable

    private final IProvisioningAgent agent;
    private final IProfileRegistry profileRegistry;
    private final IEngine engine;

    private IProvisioningPlan generateProvisioningPlan(Collection<IInstallableUnit> fromState,
Collection<IInstallableUnit> toState, ProfileChangeRequest changeRequest, IProvisioningPlan installerPlan,
ProvisioningContext context) {
        IProvisioningPlan plan = engine.createPlan(changeRequest.getProfile(), context);
        planIUOperations(plan, fromState, toState);
        planPropertyOperations(plan, changeRequest, toState);

        if (DEBUG) {
            Object[] operands = new Object[0];
            try {
                Method getOperands = plan.getClass().getMethod("getOperands", new Class[0]); //$NON-NLS-1$
                operands = (Object[]) getOperands.invoke(plan, new Object[0]);
            } catch (Throwable e) {
                // ignore
            }
            for (int i = 0; i < operands.length; i++) {
                Tracing.debug(operands[i].toString());
            }
        }
    }
}

```

```

Map<IInstallableUnit, RequestStatus>[] changes = computeActualChangeRequest(toState, changeRequest);
Map<IInstallableUnit, RequestStatus> requestChanges = (changes == null) ? null : changes[0];
Map<IInstallableUnit, RequestStatus> requestSideEffects = (changes == null) ? null : changes[1];
QueryableArray plannedState = new QueryableArray(toState.toArray(new IInstallableUnit[toState.size()]));
PlannerStatus plannerStatus = new PlannerStatus(Status.OK_STATUS, null, requestChanges, requestSideEffects,
plannedState);
plan.setStatus(plannerStatus);
plan.setInstallerPlan(installerPlan);
return plan;
}

```

```

private Map<IInstallableUnit, RequestStatus>[] buildDetailedErrors(ProfileChangeRequest changeRequest) {
    Collection<IInstallableUnit> requestedAdditions = changeRequest.getAdditions();
    Collection<IInstallableUnit> requestedRemovals = changeRequest.getRemovals();
    Map<IInstallableUnit, RequestStatus> requestStatus = new HashMap<IInstallableUnit,
RequestStatus>(requestedAdditions.size() + requestedRemovals.size());
    for (IInstallableUnit added : requestedAdditions) {
        requestStatus.put(added, new RequestStatus(added, RequestStatus.ADDED, IStatus.ERROR, null));
    }
    for (IInstallableUnit removed : requestedRemovals) {
        requestStatus.put(removed, new RequestStatus(removed, RequestStatus.REMOVED, IStatus.ERROR, null));
    }
    @SuppressWarnings("unchecked")
    Map<IInstallableUnit, RequestStatus>[] maps = new Map[] { requestStatus, null };
    return maps;
}

```

```

private Map<IInstallableUnit, RequestStatus>[] computeActualChangeRequest(Collection<IInstallableUnit>
toState, ProfileChangeRequest changeRequest) {
    Collection<IInstallableUnit> requestedAdditions = changeRequest.getAdditions();
    Collection<IInstallableUnit> requestedRemovals = changeRequest.getRemovals();
    Map<IInstallableUnit, RequestStatus> requestStatus = new HashMap<IInstallableUnit,
RequestStatus>(requestedAdditions.size() + requestedRemovals.size());
    for (IInstallableUnit added : requestedAdditions) {
        if (toState.contains(added))
            requestStatus.put(added, new RequestStatus(added, RequestStatus.ADDED, IStatus.OK, null));
        else
            requestStatus.put(added, new RequestStatus(added, RequestStatus.ADDED, IStatus.ERROR, null));
    }
    for (IInstallableUnit removed : requestedRemovals) {
        if (!toState.contains(removed))
            requestStatus.put(removed, new RequestStatus(removed, RequestStatus.REMOVED, IStatus.OK, null));
        else
            requestStatus.put(removed, new RequestStatus(removed, RequestStatus.REMOVED, IStatus.ERROR, null));
    }
}

```

```

//Compute the side effect changes (e.g. things installed optionally going away)

```

```

Iterator<IInstallableUnit> includedIUs = changeRequest.getProfile().query(new
IUProfilePropertyQuery(INCLUSION_RULES, IUProfilePropertyQuery.ANY), null).iterator();
Map<IInstallableUnit, RequestStatus> sideEffectStatus = new HashMap<IInstallableUnit, RequestStatus>();
while (includedIUs.hasNext()) {
    IInstallableUnit removal = includedIUs.next();
    if (!toState.contains(removal) && !requestStatus.containsKey(removal)) {
        sideEffectStatus.put(removal, new RequestStatus(removal, RequestStatus.REMOVED, IStatus.INFO, null));
    }
}
@SuppressWarnings("unchecked")
Map<IInstallableUnit, RequestStatus>[] maps = new Map[] {requestStatus, sideEffectStatus};
return maps;
}

/**
 * Converts a set containing a list of resolver explanations into a human-readable status object.
 */
private IStatus convertExplanationToStatus(Set<Explanation> explanations) {
    if (explanations == null)
        return new Status(IStatus.ERROR, DirectorActivator.PI_DIRECTOR,
Messages.Director_Unsatisfied_Dependencies);

    // hack to create a useful message when a user installs something intended for a target platform into the IDE
    ArrayList<IStatus> forTargets = new ArrayList<IStatus>(0);
    for (Explanation next : explanations) {
        if (next instanceof Explanation.MissingIU) {
            Explanation.MissingIU missingIU = (MissingIU) next;
            if (missingIU.req instanceof IRequiredCapability && "A.PDE.Target.Platform".equals(((IRequiredCapability)
missingIU.req).getNamespace())) //$NON-NLS-1$
                forTargets.add(new Status(IStatus.ERROR, DirectorActivator.PI_DIRECTOR,
missingIU.getUserReadableName(missingIU.iu)));
        }
    }
    if (forTargets.size() > 0) {
        // add a blurb about disabling 'include required software'. The following line could be removed if bug 309863 is
fixed
        forTargets.add(new Status(IStatus.ERROR, DirectorActivator.PI_DIRECTOR,
Messages.Director_For_Target_Unselect_Required));
        // return a multi status with all the IUs that require A.PDE.Target.Platform
        return new MultiStatus(DirectorActivator.PI_DIRECTOR, 1, forTargets.toArray(new IStatus[forTargets.size()]),
Messages.Director_For_Target, null);
    }
    MultiStatus root = new MultiStatus(DirectorActivator.PI_DIRECTOR, 1,
Messages.Director_Unsatisfied_Dependencies, null);
    //try to find a more specific root message if possible
    String specificMessage = null;
    for (Explanation next : explanations) {
        root.add(next.toStatus());
    }
}

```

```

if (specificMessage == null && next instanceof Explanation.MissingIU)
    specificMessage = Messages.Explanation_rootMissing;
else if (specificMessage == null && next instanceof Explanation.Singleton)
    specificMessage = Messages.Explanation_rootSingleton;
}
//use a more specific root message if available
if (specificMessage != null) {
    MultiStatus newRoot = new MultiStatus(DirectorActivator.PI_DIRECTOR, 1, specificMessage, null);
    newRoot.merge(root);
    root = newRoot;
}
return root;
}

private void planPropertyOperations(IProvisioningPlan plan, ProfileChangeRequest profileChangeRequest,
Collection<IInstallableUnit> toState) {

    // First deal with profile properties to remove.
    String[] toRemove = profileChangeRequest.getPropertiesToRemove();
    for (int i = 0; i < toRemove.length; i++) {
        plan.setProfileProperty(toRemove[i], null);
    }
    // Now deal with profile property changes/additions
    Map<String, String> propertyChanges = profileChangeRequest.getPropertiesToAdd();
    for (Map.Entry<String, String> entry : propertyChanges.entrySet()) {
        plan.setProfileProperty(entry.getKey(), entry.getValue());
    }

    // Now deal with iu property changes/additions.
    Map<IInstallableUnit, Map<String, String>> allIUPropertyChanges =
profileChangeRequest.getInstallableUnitProfilePropertiesToAdd();
    for (Map.Entry<IInstallableUnit, Map<String, String>> entry : allIUPropertyChanges.entrySet()) {
        IInstallableUnit iu = entry.getKey();
        if (!toState.contains(iu))
            continue;
        for (Map.Entry<String, String> entry2 : entry.getValue().entrySet()) {
            plan.setInstallableUnitProfileProperty(iu, entry2.getKey(), entry2.getValue());
        }
    }
    // Now deal with iu property removals.
    Map<IInstallableUnit, List<String>> allIUPropertyDeletions =
profileChangeRequest.getInstallableUnitProfilePropertiesToRemove();
    for (Map.Entry<IInstallableUnit, List<String>> entry : allIUPropertyDeletions.entrySet()) {
        IInstallableUnit iu = entry.getKey();
        List<String> iuPropertyRemovals = entry.getValue();
        for (String key : iuPropertyRemovals) {
            plan.setInstallableUnitProfileProperty(iu, key, null);
        }
    }
}

```

```
}  
}
```

```
private void planIUOperations(IProvisioningPlan plan, Collection<IInstallableUnit> fromState,  
Collection<IInstallableUnit> toState) {  
    new OperationGenerator(plan).generateOperation(fromState, toState);  
}
```

```
public IProvisioningPlan getDiffPlan(IProfile currentProfile, IProfile targetProfile, IProgressMonitor monitor) {  
    SubMonitor sub = SubMonitor.convert(monitor, ExpandWork);  
    sub.setTaskName(Messages.Director_Task_Resolving_Dependencies);  
    try {  
        IProfileChangeRequest profileChangeRequest = FormerState.generateProfileDeltaChangeRequest(currentProfile,  
targetProfile);  
        ProvisioningContext context = new ProvisioningContext(agent);  
        if (context.getProperty(INCLUDE_PROFILE_IUS) == null)  
            context.setProperty(INCLUDE_PROFILE_IUS, Boolean.FALSE.toString());  
        context.setExtraInstallableUnits(Arrays.asList(targetProfile.available(QueryUtil.createIUAnyQuery(),  
null)).toArray(IInstallableUnit.class));  
        return getProvisioningPlan(profileChangeRequest, context, sub.newChild(ExpandWork / 2));  
    } finally {  
        sub.done();  
    }  
}
```

```
public static Collection<IInstallableUnit> findPlannerMarkedIUs(final IProfile profile) {  
    IQuery<IInstallableUnit> markerQuery = new IUProfilePropertyQuery(INCLUSION_RULES,  
IUProfilePropertyQuery.ANY);  
    return profile.query(markerQuery, null).toUnmodifiableSet();  
}
```

```
public static Map<String, String> createSelectionContext(Map<String, String> properties) {  
    HashMap<String, String> result = new HashMap<String, String>(properties);  
    String environments = properties.get(IProfile.PROP_ENVIRONMENTS);  
    if (environments == null)  
        return result;  
    for (StringTokenizer tokenizer = new StringTokenizer(environments, ","); tokenizer.hasMoreElements(); ) {  
        //$NON-NLS-1$  
        String entry = tokenizer.nextToken();  
        int i = entry.indexOf('=');  
        String key = entry.substring(0, i).trim();  
        String value = entry.substring(i + 1).trim();  
        result.put(key, value);  
    }  
    return result;  
}
```



```

private IInstallableUnit[] gatherAvailableInstallableUnits(IInstallableUnit[] additionalSource, ProvisioningContext
context, IProgressMonitor monitor) {
    Map<String, IInstallableUnit> resultsMap = new HashMap<String, IInstallableUnit>();
    if (additionalSource != null) {
        for (int i = 0; i < additionalSource.length; i++) {
            String key = additionalSource[i].getId() + "_" + additionalSource[i].getVersion().toString(); //$NON-NLS-1$
            resultsMap.put(key, additionalSource[i]);
        }
    }
    if (context == null) {
        context = new ProvisioningContext(agent);
    } else {
        for (IInstallableUnit iu : context.getExtraInstallableUnits()) {
            String key = iu.getId() + "_" + iu.getVersion().toString();
            resultsMap.put(key, iu);
        }
    }
    SubMonitor sub = SubMonitor.convert(monitor, 1000);
    IQueryable<IInstallableUnit> queryable = context.getMetadata(sub.newChild(500));
    IQueryResult<IInstallableUnit> matches = queryable.query(QueryUtil.createIUQuery(null,
VersionRange.emptyRange), sub.newChild(500));
    for (Iterator<IInstallableUnit> it = matches.iterator(); it.hasNext();) {
        IInstallableUnit iu = it.next();
        String key = iu.getId() + "_" + iu.getVersion().toString(); //$NON-NLS-1$
        IInstallableUnit currentIU = resultsMap.get(key);
        if (currentIU == null || hasHigherFidelity(iu, currentIU))
            resultsMap.put(key, iu);
    }
    sub.done();
    Collection<IInstallableUnit> results = resultsMap.values();
    return results.toArray(new IInstallableUnit[results.size()]);
}

private static boolean hasHigherFidelity(IInstallableUnit iu, IInstallableUnit currentIU) {
    if (Boolean.valueOf(currentIU.getProperty(IInstallableUnit.PROP_PARTIAL_IU)).booleanValue() &&
!Boolean.valueOf(iu.getProperty(IInstallableUnit.PROP_PARTIAL_IU)).booleanValue())
        return true;
    return false;
}

public SimplePlanner(IProvisioningAgent agent) {
    Assert.isNotNull(agent);
    this.agent = agent;
    this.engine = (IEngine) agent.getService(IEngine.SERVICE_NAME);
    this.profileRegistry = (IProfileRegistry) agent.getService(IProfileRegistry.SERVICE_NAME);
    Assert.isNotNull(engine);
    Assert.isNotNull(profileRegistry);
}

```

```

private boolean satisfyMetaRequirements(Map<String, String> props) {
    if (props == null)
        return true;
    if (props.get(CONSIDER_METAREQUIREMENTS) == null ||
"true".equalsIgnoreCase(props.get(CONSIDER_METAREQUIREMENTS))) //$NON-NLS-1$
        return true;
    return false;
}

private boolean satisfyMetaRequirements(IProfile p) {
    return satisfyMetaRequirements(p.getProperties());
}

//Return the set of IUs representing the complete future state of the profile to satisfy the request or return a
ProvisioningPlan when the request can not be satisfied
private Object getSolutionFor(ProfileChangeRequest profileChangeRequest, ProvisioningContext context,
IProgressMonitor monitor) {
    SubMonitor sub = SubMonitor.convert(monitor, ExpandWork);
    sub.setTaskName(Messages.Director_Task_Resolving_Dependencies);
    try {
        IProfile profile = profileChangeRequest.getProfile();

        Object[] updatedPlan = updatePlannerInfo(profileChangeRequest, context);

        Map<String, String> newSelectionContext = createSelectionContext(profileChangeRequest.getProfileProperties());

        List<IInstallableUnit> extraIUs = new ArrayList<IInstallableUnit>(profileChangeRequest.getAdditions());
        extraIUs.addAll(profileChangeRequest.getRemovals());
        if (context == null || context.getProperty(INCLUDE_PROFILE_IUS) == null ||
context.getProperty(INCLUDE_PROFILE_IUS).equalsIgnoreCase(Boolean.TRUE.toString())) {
            Iterator<IInstallableUnit> itor = profile.available(QueryUtil.createIUAnyQuery(), null).iterator();
            while (itor.hasNext())
                extraIUs.add(itor.next());
        }

        IInstallableUnit[] availableIUs = gatherAvailableInstallableUnits(extraIUs.toArray(new
IInstallableUnit[extraIUs.size()]), context, sub.newChild(ExpandWork / 4));

        Slicer slicer = new Slicer(new QueryableArray(availableIUs), newSelectionContext,
satisfyMetaRequirements(profileChangeRequest.getProfileProperties()));
        IQueryable<IInstallableUnit> slice = slicer.slice(new IInstallableUnit[] {(IInstallableUnit) updatedPlan[0]},
sub.newChild(ExpandWork / 4));
        if (slice == null) {
            IProvisioningPlan plan = engine.createPlan(profile, context);
            plan.setStatus(slicer.getStatus());
            return plan;
        }
    }
}

```

```

    @SuppressWarnings("unchecked")
    final IQueryable<IInstallableUnit>[] queryables = new IQueryable[] { slice, new
QueryableArray(profileChangeRequest.getAdditions().toArray(new
IInstallableUnit[profileChangeRequest.getAdditions().size()]));
    slice = new CompoundQueryable<IInstallableUnit>(queryables);
    Projector projector = new Projector(slice, new SelectionContext, slicer.getNonGreedyIUs(),
satisfyMetaRequirements(profileChangeRequest.getProfileProperties()));
    projector.encode((IInstallableUnit) updatedPlan[0], (IInstallableUnit[]) updatedPlan[1], profile,
profileChangeRequest.getAdditions(), sub.newChild(ExpandWork / 4));
    IStatus s = projector.invokeSolver(sub.newChild(ExpandWork / 4));
    if (s.getSeverity() == IStatus.CANCEL) {
        IProvisioningPlan plan = engine.createPlan(profile, context);
        plan.setStatus(s);
        return plan;
    }
    if (s.getSeverity() == IStatus.ERROR) {
        sub.setTaskName(Messages.Planner_NoSolution);
        if (s.getCode() != UNSATISFIABLE || (context != null && !(context.getProperty(EXPLANATION) == null ||
Boolean.TRUE.toString().equalsIgnoreCase(context.getProperty(EXPLANATION))))) {
            IProvisioningPlan plan = engine.createPlan(profile, context);
            plan.setStatus(s);
            return plan;
        }

        //Extract the explanation
        Set<Explanation> explanation = projector.getExplanation(sub.newChild(ExpandWork / 4));
        IStatus explanationStatus = convertExplanationToStatus(explanation);

        Map<IInstallableUnit, RequestStatus>[] changes = buildDetailedErrors(profileChangeRequest);
        Map<IInstallableUnit, RequestStatus> requestChanges = (changes == null) ? null : changes[0];
        Map<IInstallableUnit, RequestStatus> requestSideEffects = (changes == null) ? null : changes[1];
        PlannerStatus plannerStatus = new PlannerStatus(explanationStatus, new RequestStatus(null,
RequestStatus.REMOVED, IStatus.ERROR, explanation), requestChanges, requestSideEffects, null);

        IProvisioningPlan plan = engine.createPlan(profile, context);
        plan.setStatus(plannerStatus);
        return plan;
    }
    //The resolution succeeded. We can forget about the warnings since there is a solution.
    if (Tracing.DEBUG && s.getSeverity() != IStatus.OK)
        LogHelper.log(s);
    s = Status.OK_STATUS;

    return projector;
} finally {
    sub.done();
}
}

```

```

public IProvisioningPlan getProvisioningPlan(IProfileChangeRequest request, ProvisioningContext context,
IPProgressMonitor monitor) {
    ProfileChangeRequest pcr = (ProfileChangeRequest) request;
    SubMonitor sub = SubMonitor.convert(monitor, ExpandWork);
    sub.setTaskName(Messages.Director_Task_Resolving_Dependencies);
    try {
        //Get the solution for the initial request
        Object resolutionResult = getSolutionFor(pcr, context, sub.newChild(ExpandWork / 2));
        if (resolutionResult instanceof IProvisioningPlan)
            return (IProvisioningPlan) resolutionResult;

        Collection<IInstallableUnit> newState = ((Projector) resolutionResult).extractSolution();
        Collection<IInstallableUnit> fullState = new ArrayList<IInstallableUnit>();
        fullState.addAll(newState);
        newState = AttachmentHelper.attachFragments(newState.iterator(), ((Projector)
resolutionResult).getFragmentAssociation());

        IProvisioningPlan temporaryPlan = generatePlan((Projector) resolutionResult, newState, pcr, context);

        //Create a plan for installing necessary pieces to complete the installation (e.g touchpoint actions)
        return createInstallerPlan(pcr.getProfile(), pcr, fullState, newState, temporaryPlan, context,
sub.newChild(ExpandWork / 2));
    } catch (OperationCanceledException e) {
        IProvisioningPlan plan = engine.createPlan(pcr.getProfile(), context);
        plan.setStatus(Status.CANCEL_STATUS);
        return plan;
    } finally {
        sub.done();
    }
}

// private IProvisioningPlan generateAbsoluteProvisioningPlan(ProfileChangeRequest profileChangeRequest,
ProvisioningContext context, IPProgressMonitor monitor) {
    // Set<IInstallableUnit> toState = profileChangeRequest.getProfile().query(QueryUtil.createIUAnyQuery(),
null).toSet();
    // HashSet<IInstallableUnit> fromState = new HashSet<IInstallableUnit>(toState);
    // toState.removeAll(profileChangeRequest.getRemovals());
    // toState.addAll(profileChangeRequest.getAdditions());
    //
    // IProvisioningPlan plan = engine.createPlan(profileChangeRequest.getProfile(), context);
    // planIUOperations(plan, fromState, toState);
    // planPropertyOperations(plan, profileChangeRequest);
    //
    // if (DEBUG) {
    //     Object[] operands = new Object[0];
    //     try {
    //         Method getOperands = plan.getClass().getMethod("getOperands", new Class[0]); //$NON-NLS-1$

```

```

// operands = (Object[]) getOperands.invoke(plan, new Object[0]);
// } catch (Throwable e) {
// // ignore
// }
// for (int i = 0; i < operands.length; i++) {
// Tracing.debug(operands[i].toString());
// }
// }
// Map<IInstallableUnit, RequestStatus>[] changes = computeActualChangeRequest(toState, profileChangeRequest);
// Map<IInstallableUnit, RequestStatus> requestChanges = (changes == null) ? null : changes[0];
// Map<IInstallableUnit, RequestStatus> requestSideEffects = (changes == null) ? null : changes[1];
// QueryableArray plannedState = new QueryableArray(toState.toArray(new IInstallableUnit[toState.size()]));
// PlannerStatus plannerStatus = new PlannerStatus(Status.OK_STATUS, null, requestChanges, requestSideEffects,
plannedState);
// plan.setStatus(plannerStatus);
// return plan;
// }

```

```

//Verify that all the meta requirements necessary to perform the uninstallation (if necessary) and all t
private Collection<IRequirement> areMetaRequirementsSatisfied(IProfile oldProfile, Collection<IInstallableUnit>
newProfile, IProvisioningPlan initialPlan) {
    Collection<IRequirement> allMetaRequirements = extractMetaRequirements(newProfile, initialPlan);
    for (IRequirement requirement : allMetaRequirements) {
        if (oldProfile.query(QueryUtil.createLimitQuery(QueryUtil.createMatchQuery(requirement.getMatches(), 1),
null).isEmpty())
            return allMetaRequirements;
        }
    }
    return null;
}

```

```

//Return all the meta requirements for the list of IU specified and all the meta requirements listed necessary to satisfy
the uninstallation
private Collection<IRequirement> extractMetaRequirements(Collection<IInstallableUnit> ius, IProvisioningPlan
plan) {
    Set<IRequirement> allMetaRequirements = new HashSet<IRequirement>();
    for (IInstallableUnit iu : ius) {
        allMetaRequirements.addAll(iu.getMetaRequirements());
    }
    IQueryResult<IInstallableUnit> queryResult = plan.getRemovals().query(QueryUtil.createIUAnyQuery(), null);
    for (Iterator<IInstallableUnit> iterator = queryResult.iterator(); iterator.hasNext();) {
        IInstallableUnit iu = iterator.next();
        allMetaRequirements.addAll(iu.getMetaRequirements());
    }
    return allMetaRequirements;
}

```

```

private IProvisioningPlan createInstallerPlan(IProfile profile, ProfileChangeRequest initialRequest,
Collection<IInstallableUnit> unattachedState, Collection<IInstallableUnit> expectedState, IProvisioningPlan

```

```

initialPlan, ProvisioningContext initialContext, IProgressMonitor monitor) {
    SubMonitor sub = SubMonitor.convert(monitor, ExpandWork);

    try {
        sub.setTaskName(Messages.Director_Task_installer_plan);
        if (profileRegistry == null) {
            IProvisioningPlan plan = engine.createPlan(initialRequest.getProfile(), initialContext);
            plan.setStatus(new Status(IStatus.ERROR, DirectorActivator.PI_DIRECTOR,
Messages.Planner_no_profile_registry));
            return plan;
        }

        //No installer agent set
        if (agent.getService(IProvisioningAgent.INSTALLER_AGENT) == null) {
            return initialPlan;
        }

        IProfile installerProfile = ((IProfileRegistry) ((IProvisioningAgent)
agent.getService(IProvisioningAgent.INSTALLER_AGENT)).getService(IProfileRegistry.SERVICE_NAME)).get
Profile((String) agent.getService(IProvisioningAgent.INSTALLER_PROFILEID));
        if (installerProfile == null)
            return initialPlan;

        //The target and the installer are in the same agent / profile registry
        if (haveSameLocation(agent, (IProvisioningAgent) agent.getService(IProvisioningAgent.INSTALLER_AGENT)))
        {
            //The target and the installer are the same profile (e.g. the eclipse SDK)
            if (profile.getProfileId().equals(installerProfile.getProfileId())) {
                if (profile.getTimestamp() != installerProfile.getTimestamp()) {
                    IProvisioningPlan plan = engine.createPlan(initialRequest.getProfile(), initialContext);
                    plan.setStatus(new Status(IStatus.ERROR, DirectorActivator.PI_DIRECTOR,
NLS.bind(Messages.Planner_profile_out_of_sync, profile.getProfileId())));
                    return plan;
                }
                return createInstallerPlanForCohostedCase(profile, initialRequest, initialPlan, unattachedState, expectedState,
initialContext, sub);
            }

            if (satisfyMetaRequirements(profile) && !profile.getProfileId().equals(installerProfile.getProfileId())) {
                return createInstallerPlanForCohostedCaseFromExternalInstaller(profile, initialRequest, initialPlan, expectedState,
initialContext, installerProfile, sub);
            }

            return createInstallerPlanForExternalInstaller(profile, initialRequest, initialPlan, expectedState, initialContext,
installerProfile, sub);
        }
    }
}

```

```

    } finally {
        sub.done();
    }
}

```

```

private boolean haveSameLocation(IProvisioningAgent agent1, IProvisioningAgent agent2) {
    if (agent1 == null || agent2 == null)
        return false;
    if (agent1 == agent2)
        return true;
    IAgentLocation thisLocation = (IAgentLocation) agent1.getService(IAgentLocation.SERVICE_NAME);
    IAgentLocation otherLocation = (IAgentLocation) agent2.getService(IAgentLocation.SERVICE_NAME);
    if (thisLocation == null || otherLocation == null || (thisLocation == null && otherLocation == null))
        return false;
    return thisLocation.getRootLocation().equals(otherLocation.getRootLocation());
}

```

```

private IProvisioningPlan createInstallerPlanForCohostedCaseFromExternalInstaller(IProfile profile,
ProfileChangeRequest initialRequest, IProvisioningPlan initialPlan, Collection<IInstallableUnit> newState,
ProvisioningContext initialContext, IProfile agentProfile, SubMonitor sub) {
    IProvisioningPlan planForProfile = generatePlan(null, newState, initialRequest, initialContext);
    return createInstallerPlanForExternalInstaller(profile, initialRequest, planForProfile, newState, initialContext,
agentProfile, sub);
}

```

```

//Deal with the case where the agent profile is different than the one being provisioned
private IProvisioningPlan createInstallerPlanForExternalInstaller(IProfile targetedProfile, ProfileChangeRequest
initialRequest, IProvisioningPlan initialPlan, Collection<IInstallableUnit> expectedState, ProvisioningContext
initialContext, IProfile agentProfile, SubMonitor sub) {
    IProfileRegistry installerRegistry = (IProfileRegistry) ((IProvisioningAgent)
agent.getService(IProvisioningAgent.INSTALLER_AGENT)).getService(IProfileRegistry.SERVICE_NAME);
    IProfile installerProfile = installerRegistry.getProfile((String)
agent.getService(IProvisioningAgent.INSTALLER_PROFILEID));

```

```

    Collection<IRequirement> metaRequirements = areMetaRequirementsSatisfied(installerProfile, expectedState,
initialPlan);
    if (metaRequirements == null)
        return initialPlan;

```

```

    IInstallableUnit actionsIU = createIUForMetaRequirements(targetedProfile, metaRequirements);
    IInstallableUnit previousActionsIU = getPreviousIUForMetaRequirements(installerProfile,
getActionGatheringIUId(targetedProfile), sub);

```

```

    ProfileChangeRequest agentRequest = new ProfileChangeRequest(installerProfile);
    agentRequest.add(actionsIU);
    if (previousActionsIU != null)
        agentRequest.remove(previousActionsIU);
    Object externalInstallerPlan = getSolutionFor(agentRequest, initialContext, sub.newChild(10));

```

```

    if (externalInstallerPlan instanceof IProvisioningPlan && ((IProvisioningPlan)
externalInstallerPlan).getStatus().getSeverity() == IStatus.ERROR) {
    MultiStatus externalInstallerStatus = new MultiStatus(DirectorActivator.PI_DIRECTOR, 0,
Messages.Planner_can_not_install_preq, null);
    externalInstallerStatus.add(((IProvisioningPlan) externalInstallerPlan).getStatus());
    IProvisioningPlan plan = engine.createPlan(initialRequest.getProfile(), initialContext);
    plan.setStatus(externalInstallerStatus);
    IProvisioningPlan installerPlan = engine.createPlan(agentProfile, initialContext);
    installerPlan.setStatus(externalInstallerStatus);
    plan.setInstallerPlan(installerPlan);
    return plan;
}

initialPlan.setInstallerPlan(generatePlan((Projector) externalInstallerPlan, null, agentRequest, initialContext));
return initialPlan;
}

//Deal with the case where the actions needs to be installed in the same profile than the one we are performing the
initial request
//The expectedState represents the result of the initialRequest where the metaRequirements have been satisfied.
private IProvisioningPlan createInstallerPlanForCohostedCase(IProfile profile, ProfileChangeRequest
initialRequest, IProvisioningPlan initialPlan, Collection<IInstallableUnit> unattachedState,
Collection<IInstallableUnit> expectedState, ProvisioningContext initialContext, SubMonitor monitor) {
    Collection<IRequirement> metaRequirements = initialRequest.getRemovals().size() == 0 ?
areMetaRequirementsSatisfied(profile, expectedState, initialPlan) : extractMetaRequirements(expectedState,
initialPlan);
    if (metaRequirements == null || metaRequirements.isEmpty())
        return initialPlan;

    //Let's compute a plan that satisfy all the metaRequirements. We limit ourselves to only the IUs that were part of the
previous solution.
    IInstallableUnit metaRequirementIU = createIUForMetaRequirements(profile, metaRequirements);
    IInstallableUnit previousMetaRequirementIU = getPreviousIUForMetaRequirements(profile,
getActionGatheringIUId(profile), monitor);

    //Create an agent request from the initial request
    ProfileChangeRequest agentRequest = new ProfileChangeRequest(profile);
    for (Map.Entry<String, String> entry : initialRequest.getPropertiesToAdd().entrySet()) {
        agentRequest.setProfileProperty(entry.getKey(), entry.getValue());
    }
    String[] removedProperties = initialRequest.getPropertiesToRemove();
    for (int i = 0; i < removedProperties.length; i++) {
        agentRequest.removeProfileProperty(removedProperties[i]);
    }
    Map<IInstallableUnit, List<String>> removedIUProperties =
initialRequest.getInstallableUnitProfilePropertiesToRemove();
    for (Map.Entry<IInstallableUnit, List<String>> entry : removedIUProperties.entrySet()) {
        for (String propKey : entry.getValue()) {

```



```

    agentRequest.removeInstallableUnitProfileProperty(entry.getKey(), propKey);
}
}

if (previousMetaRequirementIU != null)
    agentRequest.remove(previousMetaRequirementIU);
agentRequest.add(metaRequirementIU);

ProvisioningContext agentCtx = new ProvisioningContext(agent);
agentCtx.setMetadataRepositories(new URI[0]);
ArrayList<IInstallableUnit> extraIUs = new ArrayList<IInstallableUnit>(unattachedState);
agentCtx.setExtraInstallableUnits(extraIUs);
Object agentSolution = getSolutionFor(agentRequest, agentCtx, monitor.newChild(3));
if (agentSolution instanceof IProvisioningPlan && ((IProvisioningPlan) agentSolution).getStatus().getSeverity() ==
IStatus.ERROR) {
    MultiStatus agentStatus = new MultiStatus(DirectorActivator.PI_DIRECTOR, 0,
Messages.Planner_actions_and_software_incompatible, null);
    agentStatus.add(((IProvisioningPlan) agentSolution).getStatus());
    IProvisioningPlan plan = engine.createPlan(initialRequest.getProfile(), initialContext);
    plan.setStatus(agentStatus);
    IProvisioningPlan installerPlan = engine.createPlan(initialRequest.getProfile(), initialContext);
    installerPlan.setStatus(agentStatus);
    plan.setInstallerPlan(installerPlan);
    return plan;
}

//Compute the installer plan. It is the difference between what is currently in the profile and the solution we just
computed
Collection<IInstallableUnit> agentState = ((Projector) agentSolution).extractSolution();
agentState.remove(metaRequirementIU); //Remove the fake IU
agentState = AttachmentHelper.attachFragments(agentState.iterator(), ((Projector)
agentSolution).getFragmentAssociation());

ProvisioningContext noRepoContext = createNoRepoContext(initialRequest);
//...This computes the attachment of what is currently in the profile
Object initialSolution = getSolutionFor(new ProfileChangeRequest(new
EverythingOptionalProfile(initialRequest.getProfile()), noRepoContext, new NullProgressMonitor());
if (initialSolution instanceof IProvisioningPlan) {
    LogHelper.log(new Status(IStatus.ERROR, DirectorActivator.PI_DIRECTOR, "The resolution of the previous state
contained in profile " + initialRequest.getProfile().getProfileId() + " version " +
initialRequest.getProfile().getTimestamp() + " failed.")); //$NON-NLS-1$//$NON-NLS-2$//$NON-NLS-3$
    return (IProvisioningPlan) initialSolution;
}
Iterator<IInstallableUnit> profileState = initialRequest.getProfile().query(QueryUtil.createIUAnyQuery(),
null).iterator();
Collection<IInstallableUnit> initialState = AttachmentHelper.attachFragments(profileState, ((Projector)
initialSolution).getFragmentAssociation());

```

```

IProvisioningPlan agentPlan = generateProvisioningPlan(initialState, agentState, initialRequest, null,
initialContext);

//Compute the installation plan. It is the difference between the state after the installer plan has run and the
expectedState.
return generateProvisioningPlan(agentState, expectedState, initialRequest, agentPlan, initialContext);
}

//Compute the set of operands based on the solution obtained previously
private IProvisioningPlan generatePlan(Projector newSolution, Collection<IInstallableUnit> newState,
ProfileChangeRequest request, ProvisioningContext context) {
//Compute the attachment of the new state if not provided
if (newState == null) {
newState = newSolution.extractSolution();
newState = AttachmentHelper.attachFragments(newState.iterator(), newSolution.getFragmentAssociation());
}
ProvisioningContext noRepoContext = createNoRepoContext(request);

//Compute the attachment of the previous state
Object initialSolution = getSolutionFor(new ProfileChangeRequest(new
EverythingOptionalProfile(request.getProfile()), noRepoContext, new NullProgressMonitor());
if (initialSolution instanceof IProvisioningPlan) {
LogHelper.log(new Status(IStatus.ERROR, DirectorActivator.PI_DIRECTOR, "The resolution of the previous state
contained in profile " + request.getProfile().getProfileId() + " version " + request.getProfile().getTimestamp() + "
failed.")); //$NON-NLS-1$//$NON-NLS-2$//$NON-NLS-3$
return (IProvisioningPlan) initialSolution;
}
Iterator<IInstallableUnit> profileState = request.getProfile().query(QueryUtil.createIUAnyQuery(), null).iterator();
Collection<IInstallableUnit> initialState = AttachmentHelper.attachFragments(profileState, ((Projector)
initialSolution).getFragmentAssociation());

//Generate the plan
return generateProvisioningPlan(initialState, newState, request, null, context);
}

private ProvisioningContext createNoRepoContext(ProfileChangeRequest request) {
ProvisioningContext noRepoContext = new ProvisioningContext(agent);
noRepoContext.setMetadataRepositories(new URI[0]);
noRepoContext.setArtifactRepositories(new URI[0]);
noRepoContext.setProperty(INCLUDE_PROFILE_IUS, Boolean.FALSE.toString());
noRepoContext.setExtraInstallableUnits(new
ArrayList<IInstallableUnit>(request.getProfile().query(QueryUtil.createIUAnyQuery(), new
NullProgressMonitor()).toUnmodifiableSet()));
return noRepoContext;
}

private IInstallableUnit getPreviousIUForMetaRequirements(IProfile profile, String iuId, IProgressMonitor monitor)
{

```

```

IQueryResult<IInstallableUnit> c = profile.query(QueryUtil.createIUQuery(iuId), monitor);
if (c.isEmpty())
    return null;
return c.iterator().next();
}

private String getActionGatheringIUIId(IProfile profile) {
    return ID_IU_FOR_ACTIONS + '.' + profile.getProfileId();
}

private IInstallableUnit createIUFforMetaRequirements(IProfile profile, Collection<IRequirement>
metaRequirements) {
    InstallableUnitDescription description = new InstallableUnitDescription();
    String id = getActionGatheringIUIId(profile);
    description.setId(id);
    Version version = Version.createOSGi(1, 0, 0, Long.toString(profile.getTimestamp()));
    description.setVersion(version);
    description.addRequirements(metaRequirements);

    ArrayList<IProvidedCapability> providedCapabilities = new ArrayList<IProvidedCapability>();
    IProvidedCapability providedCapability =
MetadataFactory.createProvidedCapability(IInstallableUnit.NAMESPACE_IU_ID, id, version);
    providedCapabilities.add(providedCapability);
    description.addProvidedCapabilities(providedCapabilities);

    IInstallableUnit actionsIU = MetadataFactory.createInstallableUnit(description);
    return actionsIU;
}

private IInstallableUnit createIURepresentingTheProfile(Set<IRequirement> allRequirements) {
    InstallableUnitDescription iud = new MetadataFactory.InstallableUnitDescription();
    String time = Long.toString(System.currentTimeMillis());
    iud.setId(time);
    iud.setVersion(Version.createOSGi(0, 0, 0, time));
    iud.setRequirements(allRequirements.toArray(new IRequirement[allRequirements.size()]));
    return MetadataFactory.createInstallableUnit(iud);
}

//The planner uses installable unit properties to keep track of what it has been asked to install. This updates this
information
//It returns at index 0 a meta IU representing everything that needs to be installed
//It returns at index 1 all the IUs that are in the profile after the removal have been done, but before the addition have
been done
private Object[] updatePlannerInfo(ProfileChangeRequest profileChangeRequest, ProvisioningContext context) {
    IQueryResult<IInstallableUnit> alreadyInstalled = profileChangeRequest.getProfile().query(new
IUProfilePropertyQuery(INCLUSION_RULES, IUProfilePropertyQuery.ANY), null);

    Collection<IInstallableUnit> additionRequested = profileChangeRequest.getAdditions();

```

```

Collection<IInstallableUnit> removalRequested = profileChangeRequest.getRemovals();

for (Map.Entry<IInstallableUnit, List<String>> object :
profileChangeRequest.getInstallableUnitProfilePropertiesToRemove().entrySet()) {
    if (object.getValue().contains(INCLUSION_RULES))
        profileChangeRequest.setInstallableUnitProfileProperty(object.getKey(), INCLUSION_RULES,
ProfileInclusionRules.createStrictInclusionRule(object.getKey()));
    }
//Remove the iu properties associated to the ius removed and the iu properties being removed as well
if (removalRequested.size() != 0) {
for (Iterator<IInstallableUnit> iterator = alreadyInstalled.iterator(); iterator.hasNext();) {
    IInstallableUnit iu = iterator.next();
for (IInstallableUnit removed : removalRequested) {
    if (iu.equals(removed)) {
        profileChangeRequest.removeInstallableUnitProfileProperty(removed, INCLUSION_RULES);
        iterator.remove();
        break;
    }
}
}
}
Set<IRequirement> gatheredRequirements = new HashSet<IRequirement>();

//Process all the IUs being added
Map<IInstallableUnit, Map<String, String>> iuPropertiesToAdd =
profileChangeRequest.getInstallableUnitProfilePropertiesToAdd();
for (IInstallableUnit added : additionRequested) {
    Map<String, String> propertiesForIU = iuPropertiesToAdd.get(added);
    IRequirement profileRequirement = null;
    if (propertiesForIU != null) {
        profileRequirement = createRequirement(added, propertiesForIU.get(INCLUSION_RULES));
    }
    if (profileRequirement == null) {
        profileChangeRequest.setInstallableUnitProfileProperty(added, INCLUSION_RULES,
ProfileInclusionRules.createStrictInclusionRule(added));
        profileRequirement = createStrictRequirement(added);
    }
    gatheredRequirements.add(profileRequirement);
}

//Process the IUs that were already there
for (Iterator<IInstallableUnit> iterator = alreadyInstalled.iterator(); iterator.hasNext();) {
    IInstallableUnit iu = iterator.next();
    Map<String, String> propertiesForIU = iuPropertiesToAdd.get(iu);
    IRequirement profileRequirement = null;
    //Test if the value has changed
    if (propertiesForIU != null) {
        profileRequirement = createRequirement(iu, propertiesForIU.get(INCLUSION_RULES));
    }
}

```

```

    }
    if (profileRequirement == null) {
        profileRequirement = createRequirement(iu, profileChangeRequest.getProfile().getInstallableUnitProperty(iu,
INCLUSION_RULES));
    }
    gatheredRequirements.add(profileRequirement);
}

//Now add any other requirement that we need to see satisfied
if (profileChangeRequest.getExtraRequirements() != null)
    gatheredRequirements.addAll(profileChangeRequest.getExtraRequirements());
return new Object[] { createIURepresentingTheProfile(gatheredRequirements),
alreadyInstalled.toArray(IInstallableUnit.class) };
}

private IRequirement createRequirement(IInstallableUnit iu, String rule) {
    if (rule == null)
        return null;
    if (rule.equals(ProfileInclusionRules.createStrictInclusionRule(iu))) {
        return createStrictRequirement(iu);
    }
    if (rule.equals(ProfileInclusionRules.createOptionalInclusionRule(iu))) {
        return createOptionalRequirement(iu);
    }
    return null;
}

private IRequirement createOptionalRequirement(IInstallableUnit iu) {
    return MetadataFactory.createRequirement(IInstallableUnit.NAMESPACE_IU_ID, iu.getId(), new
VersionRange(iu.getVersion(), true, iu.getVersion(), true), null, true, false, true);
}

private IRequirement createStrictRequirement(IInstallableUnit iu) {
    return MetadataFactory.createRequirement(IInstallableUnit.NAMESPACE_IU_ID, iu.getId(), new
VersionRange(iu.getVersion(), true, iu.getVersion(), true), null, false, false, true);
}

public IQueryResult<IInstallableUnit> updatesFor(IInstallableUnit toUpdate, ProvisioningContext context,
IProgressMonitor monitor) {
    Map<String, IInstallableUnit> resultsMap = new HashMap<String, IInstallableUnit>();

    SubMonitor sub = SubMonitor.convert(monitor, 1000);
    IQueryable<IInstallableUnit> queryable = context.getMetadata(sub.newChild(500));
    IQueryResult<IInstallableUnit> matches = queryable.query(new UpdateQuery(toUpdate), sub.newChild(500));
    for (Iterator<IInstallableUnit> it = matches.iterator(); it.hasNext();) {
        IInstallableUnit iu = it.next();
        String key = iu.getId() + "_" + iu.getVersion().toString(); //$NON-NLS-1$
        IInstallableUnit currentIU = resultsMap.get(key);

```

```

if (currentIU == null || hasHigherFidelity(iu, currentIU))
    resultsMap.put(key, iu);
}
sub.done();
return new CollectionResult<IInstallableUnit>(resultsMap.values());
}

//helper class to trick the resolver to believe that everything is optional
private static class EverythingOptionalProfile implements IProfile {
    private IProfile profile;

    public EverythingOptionalProfile(IProfile p) {
        profile = p;
    }

    public IQueryResult<IInstallableUnit> available(IQuery<IInstallableUnit> query, IProgressMonitor monitor) {
        return profile.available(query, monitor);
    }

    public Map<String, String> getInstallableUnitProperties(IInstallableUnit iu) {
        return profile.getInstallableUnitProperties(iu);
    }

    public String getInstallableUnitProperty(IInstallableUnit iu, String key) {
        if (INCLUSION_RULES.equals(key))
            return ProfileInclusionRules.createOptionalInclusionRule(iu);
        return profile.getInstallableUnitProperty(iu, key);
    }

    public String getProfileId() {
        return profile.getProfileId();
    }

    public Map<String, String> getProperties() {
        return profile.getProperties();
    }

    public String getProperty(String key) {
        return profile.getProperty(key);
    }

    public IProvisioningAgent getProvisioningAgent() {
        return profile.getProvisioningAgent();
    }

    public long getTimestamp() {
        return profile.getTimestamp();
    }
}

```

```

public IQueryResult<IInstallableUnit> query(IQuery<IInstallableUnit> query, IProgressMonitor monitor) {
    return profile.query(query, monitor);
}
}

```

```

public IProfileChangeRequest createChangeRequest(IProfile profileToChange) {
    return new ProfileChangeRequest(profileToChange);
}
}

```

```

/*****

```

```

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```

```

* Contributors:

```

```

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* Cloudsmith Inc. - converted into expression based query

```

```

*****/

```

```

package org.eclipse.equinox.internal.p2.director;

```

```

import org.eclipse.equinox.p2.query.ExpressionMatchQuery;

```

```

import org.eclipse.equinox.p2.metadata.IInstallableUnit;
import org.eclipse.equinox.p2.metadata.IInstallableUnitPatch;
import org.eclipse.equinox.p2.metadata.expression.ExpressionUtil;
import org.eclipse.equinox.p2.metadata.expression.IExpression;

```

```

/**

```

```

* A query that accepts any patch that applies to a given installable unit.

```

```

*/

```

```

public class ApplicablePatchQuery extends ExpressionMatchQuery<IInstallableUnit> {
    private static final IExpression applicablePatches = ExpressionUtil.parse(//
        "applicabilityScope.empty || applicabilityScope.exists(rqArr | rqArr.all(rq | $0 ~= rq))"); //$NON-NLS-1$

```

```

/**

```

```

* Creates a new patch query on the given installable unit. Patches that can
* be applied to this unit will be accepted as matches by the query.
* @param iu The unit to compare patches against

```

```

*/

```

```

public ApplicablePatchQuery(IInstallableUnit iu) {
    super(IInstallableUnitPatch.class, applicablePatches, iu);
}
}

```

```

/*****

```

```

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```

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* Sonatype, Inc. - ongoing development

*****/

package org.eclipse.equinox.internal.p2.director;

import java.util.Collection;

import org.eclipse.core.runtime.*;

import org.eclipse.equinox.internal.provisional.p2.director.IDirector;

import org.eclipse.equinox.internal.provisional.p2.director.PlanExecutionHelper;

import org.eclipse.equinox.p2.engine.*;

import org.eclipse.equinox.p2.metadata.IInstallableUnit;

import org.eclipse.equinox.p2.planner.IPlanner;

import org.eclipse.equinox.p2.planner.IProfileChangeRequest;

import org.eclipse.osgi.util.NLS;

public class SimpleDirector implements IDirector {

static final int PlanWork = 10;

static final int EngineWork = 100;

private IEngine engine;

private IPlanner planner;

public SimpleDirector(IEngine engine, IPlanner planner) {

if (engine == null)

throw new IllegalStateException("Provisioning engine is not registered"); //\$NON-NLS-1\$

this.engine = engine;

if (planner == null)

throw new IllegalStateException("Unable to find provisioning planner"); //\$NON-NLS-1\$

this.planner = planner;

}

public IStatus revert(IProfile currentProfile, IProfile revertProfile, ProvisioningContext context, IProgressMonitor monitor) {

SubMonitor sub = SubMonitor.convert(monitor, Messages.Director_Task_Updating, PlanWork + EngineWork);

try {

IProvisioningPlan plan = planner.getDiffPlan(currentProfile, revertProfile, sub.newChild(PlanWork));

return PlanExecutionHelper.executePlan(plan, engine, context, sub.newChild(EngineWork));

} finally {

sub.done();

}

}

public IStatus provision(IProfileChangeRequest request, ProvisioningContext context, IProgressMonitor monitor) {

String taskName = NLS.bind(Messages.Director_Task_Installing, ((ProfileChangeRequest)


```

request).getProfile().getProperty(IProfile.PROP_INSTALL_FOLDER));
SubMonitor sub = SubMonitor.convert(monitor, taskName, PlanWork + EngineWork);
try {
Collection<IInstallableUnit> installRoots = request.getAdditions();
// mark the roots as such
for (IInstallableUnit root : installRoots) {
request.setInstallableUnitProfileProperty(root, IProfile.PROP_PROFILE_ROOT_IU, Boolean.toString(true));
}
IProvisioningPlan plan = planner.getProvisioningPlan(request, context, sub.newChild(PlanWork));
return PlanExecutionHelper.executePlan(plan, engine, context, sub.newChild(EngineWork));
} finally {
sub.done();
}
}
}
}

```

```

/*****

```

```

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*

```

```

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```

```

*****/

```

```

package org.eclipse.equinox.internal.p2.director;

```

```

import java.util.Map;
import org.eclipse.equinox.internal.p2.metadata.RequiredCapability;
import org.eclipse.equinox.p2.metadata.IInstallableUnit;
import org.eclipse.equinox.p2.metadata.IRequirement;
import org.eclipse.equinox.p2.query.IQueryable;

```

```

public class PermissiveSlicer extends Slicer {
private boolean includeOptionalDependencies; //Cause optional dependencies not be followed as part of the
private boolean everythingGreedy;
private boolean considerFilter;
private boolean considerOnlyStrictDependency;
private boolean evalFilterTo;
private boolean onlyFilteredRequirements;

```

```

public PermissiveSlicer(IQueryable<IInstallableUnit> input, Map<String, String> context, boolean
includeOptionalDependencies, boolean everythingGreedy, boolean evalFilterTo, boolean
considerOnlyStrictDependency, boolean onlyFilteredRequirements) {
super(input, context, true);
this.considerFilter = (context != null && context.size() > 1) ? true : false;
this.includeOptionalDependencies = includeOptionalDependencies;
this.everythingGreedy = everythingGreedy;
this.evalFilterTo = evalFilterTo;
this.considerOnlyStrictDependency = considerOnlyStrictDependency;

```

```

this.onlyFilteredRequirements = onlyFilteredRequirements;
}

protected boolean isApplicable(IInstallableUnit iu) {
    if (considerFilter)
        return super.isApplicable(iu);
    if (iu.getFilter() == null)
        return true;
    return evalFilterTo;
}

protected boolean isApplicable(IRequirement req) {
    //Every filter in this method needs to continue except when the filter does not pass
    if (!includeOptionalDependencies)
        if (req.getMin() == 0)
            return false;

    if (considerOnlyStrictDependency) {
        if (!RequiredCapability.isVersionStrict(req.getMatches()))
            return false;
    }

    //deal with filters
    if (considerFilter) {
        if (onlyFilteredRequirements && req.getFilter() == null) {
            return false;
        }
        return super.isApplicable(req);
    }
    if (req.getFilter() == null) {
        if (onlyFilteredRequirements)
            return false;
        return true;
    }
    return evalFilterTo;
}

protected boolean isGreedy(IRequirement req) {
    if (everythingGreedy) {
        return true;
    }
    return super.isGreedy(req);
}
}

```

1.531 org.eclipse.equinox.p2.director.app

1.0.300.v20110505

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1.532

org.eclipse.equinox.p2.directorywatcher

1.0.300.v20110502-1955

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1.533 org.eclipse.equinox.p2.engine

2.1.0.v20110511

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*****/

package org.eclipse.equinox.internal.p2.engine;

```

import org.eclipse.equinox.p2.engine.IEngine;
import org.eclipse.equinox.p2.engine.IProfile;

/**
 * @since 2.0
 */
public class CommitOperationEvent extends TransactionEvent {
    private static final long serialVersionUID = -523967775426133720L;

    public CommitOperationEvent(IProfile profile, PhaseSet phaseSet, Operand[] operands, IEngine engine) {
        super(profile, phaseSet, operands, engine);
    }

}

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 *
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 *****/
package org.eclipse.equinox.internal.p2.engine;

import java.io.*;
import java.lang.ref.SoftReference;
import java.net.URI;
import java.util.*;
import java.util.Map.Entry;
import java.util.zip.GZIPInputStream;
import java.util.zip.GZIPOutputStream;
import javax.xml.parsers.ParserConfigurationException;
import org.eclipse.core.runtime.*;
import org.eclipse.core.runtime.jobs.Job;
import org.eclipse.equinox.internal.p2.core.helpers.*;
import org.eclipse.equinox.internal.p2.metadata.TranslationSupport;
import org.eclipse.equinox.internal.provisional.p2.core.eventbus.IProvisioningEventBus;
import org.eclipse.equinox.p2.core.*;
import org.eclipse.equinox.p2.core.spi.IAgentService;
import org.eclipse.equinox.p2.engine.*;
import org.eclipse.equinox.p2.metadata.*;
import org.eclipse.equinox.p2.query.IQueryResult;
import org.eclipse.equinox.p2.query.QueryUtil;
import org.eclipse.osgi.service.datalocation.Location;
import org.eclipse.osgi.util.NLS;
import org.osgi.framework.BundleContext;
import org.osgi.framework.ServiceReference;

```

```

import org.xml.sax.InputSource;
import org.xml.sax.SAXException;

public class SimpleProfileRegistry implements IProfileRegistry, IAgentService {

    private static final String PROFILE_REGISTRY = "profile registry"; //$NON-NLS-1$
    private static final String PROFILE_PROPERTIES_FILE = "state.properties"; //$NON-NLS-1$

    private static final String PROFILE_EXT = ".profile"; //$NON-NLS-1$
    private static final String PROFILE_GZ_EXT = ".profile.gz"; //$NON-NLS-1$
    public static final String DEFAULT_STORAGE_DIR = "profileRegistry"; //$NON-NLS-1$
    private static final String DATA_EXT = ".data"; //$NON-NLS-1$

    protected final IProvisioningAgent agent;

    /**
     * Reference to Map of String(Profile id)->Profile.
     */
    private SoftReference<Map<String, Profile>> profiles;
    private Map<String, ProfileLock> profileLocks = new HashMap<String, ProfileLock>();

    private String self;

    //Whether the registry should update the self profile when the registry is restored
    private boolean updateSelfProfile;

    private File store;

    ISurrogateProfileHandler surrogateProfileHandler;

    private IProvisioningEventBus eventBus;
    // cache of last accessed profile state properties
    private ProfileStateProperties lastAccessedProperties;

    public SimpleProfileRegistry(IProvisioningAgent agent, File registryDirectory) {
        this(agent, registryDirectory, new SurrogateProfileHandler(agent), true);
    }

    public SimpleProfileRegistry(IProvisioningAgent agent, File registryDirectory, ISurrogateProfileHandler handler,
    boolean updateSelfProfile) {
        this.agent = agent;
        store = registryDirectory;
        surrogateProfileHandler = handler;
        Assert.isNotNull(store, "Profile registry requires a directory"); //$NON-NLS-1$
        findSelf();
        this.updateSelfProfile = updateSelfProfile;
    }

```

```

/**
 * Determine the id of the "self" profile. This is only applicable for the registry
 * of the currently running system.
 */
private void findSelf() {
    //the location for the currently running system is registered as a service
    final BundleContext context = EngineActivator.getContext();
    if (context == null)
        return;
    ServiceReference<IAgentLocation> ref = context.getServiceReference(IAgentLocation.class);
    if (ref == null)
        return;
    IAgentLocation location = context.getService(ref);
    if (location == null)
        return;
    if (store.equals(getDefaultRegistryDirectory(location))) {
        //we are the registry for the currently running system
        self = context.getProperty("eclipse.p2.profile"); //$NON-NLS-1$
    }
    context.ungetService(ref);
}

public static File getDefaultRegistryDirectory(IAgentLocation agent) {
    File registryDirectory = null;
    if (agent == null)
        throw new IllegalStateException("Profile Registry initialization failed: Agent Location is not available"); //$NON-NLS-1$
    final URI engineDataArea = agent.getDataArea(EngineActivator.ID);
    URI registryURL = URIUtil.append(engineDataArea, DEFAULT_STORAGE_DIR);
    registryDirectory = new File(registryURL);
    registryDirectory.mkdirs();
    return registryDirectory;
}

/**
 * If the current profile for self is marked as a roaming profile, we need
 * to update its install and bundle pool locations.
 */
private void updateSelfProfile(Map<String, Profile> profileMap) {
    if (profileMap == null)
        return;
    Profile selfProfile = profileMap.get(self);
    if (selfProfile == null)
        return;

    //register default locale provider where metadata translations are found
    //TODO ideally this should not be hard-coded to the current profile
    TranslationSupport.getInstance().setTranslationSource(selfProfile);
}

```

```

if (DebugHelper.DEBUG_PROFILE_REGISTRY)
    DebugHelper.debug(PROFILE_REGISTRY, "SimpleProfileRegistry.updateSelfProfile"); //$NON-NLS-1$
boolean changed = false;
//only update if self is a roaming profile
if (Boolean.valueOf(selfProfile.getProperty(IProfile.PROP_ROAMING)).booleanValue())
    changed = updateRoamingProfile(selfProfile);

if (surrogateProfileHandler != null && surrogateProfileHandler.isSurrogate(selfProfile))
    changed = changed || surrogateProfileHandler.updateProfile(selfProfile);

if (changed)
    saveProfile(selfProfile);
}

private boolean updateRoamingProfile(Profile selfProfile) {
if (DebugHelper.DEBUG_PROFILE_REGISTRY)
    DebugHelper.debug(PROFILE_REGISTRY, "SimpleProfileRegistry.updateRoamingProfile"); //$NON-NLS-1$
    Location installLocation = (Location) ServiceHelper.getService(EngineActivator.getContext(),
Location.class.getName(), Location.INSTALL_FILTER);
    File location = new File(installLocation.getURL().getPath());
    boolean changed = false;
    if (!location.equals(new File(selfProfile.getProperty(IProfile.PROP_INSTALL_FOLDER)))) {
        selfProfile.setProperty(IProfile.PROP_INSTALL_FOLDER, location.getAbsolutePath());
        changed = true;
    }
    String propCache = selfProfile.getProperty(IProfile.PROP_CACHE);
    String carbonHome = System.getProperty("carbon.home");
    String cacheLocation = carbonHome + File.separator + "repository" + File.separator + "components";
    // Here we are setting the bundle pool location as $CARBON_HOME/repository/components. Chaning the
property in
    // ProfileChangeRequest won't work, since this cade(original) always set the cache.location to be install folder.
    // see https://bugs.eclipse.org/bugs/show_bug.cgi?id=342156

    /*
    Why this works: this bundle only get used during the carbon runtime provisioning. That is using feature
manager.
    The initial provisioning will be done using external p2-agent. Specifically tycho p2-agent distribution.
    */
    if (propCache != null && !cacheLocation.trim().equals(propCache.trim())) {
        selfProfile.setProperty(IProfile.PROP_CACHE, cacheLocation);
        //selfProfile.setProperty(IProfile.PROP_CACHE, location.getAbsolutePath());
        changed = true;
    }
    if (DebugHelper.DEBUG_PROFILE_REGISTRY)
        DebugHelper.debug(PROFILE_REGISTRY, "SimpleProfileRegistry.updateRoamingProfile(changed=" + changed
+ ')'); //$NON-NLS-1$
    return changed;
}

```

```

}

public synchronized String toString() {
    return getProfileMap().toString();
}

public synchronized IProfile getProfile(String id) {
    Profile profile = internalGetProfile(id);
    if (profile == null)
        return null;
    return profile.snapshot();
}

public synchronized IProfile getProfile(String id, long timestamp) {
    if (SELF.equals(id))
        id = self;

    if (profiles != null) {
        IProfile profile = getProfile(id);
        if (profile != null && profile.getTimestamp() == timestamp)
            return profile;
    }

    File profileDirectory = getProfileFolder(id);
    if (!profileDirectory.isDirectory())
        return null;

    File profileFile = new File(profileDirectory, Long.toString(timestamp) + PROFILE_GZ_EXT);
    if (!profileFile.exists()) {
        profileFile = new File(profileDirectory, Long.toString(timestamp) + PROFILE_EXT);
        if (!profileFile.exists())
            return null;
    }

    Parser parser = new Parser(EngineActivator.getContext(), EngineActivator.ID);
    try {
        parser.parse(profileFile);
    } catch (IOException e) {
        LogHelper.log(new Status(IStatus.ERROR, EngineActivator.ID, NLS.bind(Messages.error_parsing_profile,
profileFile), e));
    }
    return parser.getProfileMap().get(id);
}

public synchronized long[] listProfileTimestamps(String id) {
    if (SELF.equals(id))
        id = self;
    //guard against null self profile

```

```

if (id == null)
    return new long[0];

File profileDirectory = getProfileFolder(id);
if (!profileDirectory.isDirectory())
    return new long[0];

File[] profileFiles = profileDirectory.listFiles(new FileFilter() {
    public boolean accept(File pathname) {
        return (pathname.getName().endsWith(PROFILE_EXT) || pathname.getName().endsWith(PROFILE_GZ_EXT))
        && pathname.isFile();
    }
});

long[] timestamps = new long[profileFiles.length];
for (int i = 0; i < profileFiles.length; i++) {
    String filename = profileFiles[i].getName();
    int extensionIndex = filename.lastIndexOf(PROFILE_EXT);
    try {
        timestamps[i] = Long.parseLong(filename.substring(0, extensionIndex));
    } catch (NumberFormatException e) {
        throw new IllegalStateException("Incompatible profile file name. Expected format is {timestamp}" +
        PROFILE_GZ_EXT + " (or {timestamp}" + PROFILE_EXT + ") but was " + filename + "."); //$NON-NLS-1$
        //$NON-NLS-2$ //$NON-NLS-3$ //$NON-NLS-4$
    }
}
Arrays.sort(timestamps);
return timestamps;
}

private Profile internalGetProfile(String id) {
    if (SELF.equals(id))
        id = self;
    Profile profile = getProfileMap().get(id);
    if (profile == null && self != null && self.equals(id))
        profile = createSurrogateProfile(id);

    return profile;
}

private Profile createSurrogateProfile(String id) {
    if (surrogateProfileHandler == null)
        return null;

    Profile profile = (Profile) surrogateProfileHandler.createProfile(id);
    if (profile == null)
        return null;
}

```

```

saveProfile(profile);
resetProfiles();
return getProfileMap().get(id);
}

public synchronized IProfile[] getProfiles() {
    Map<String, Profile> profileMap = getProfileMap();
    Profile[] result = new Profile[profileMap.size()];
    int i = 0;
    for (Profile profile : profileMap.values()) {
        result[i++] = profile.snapshot();
    }
    return result;
}

/**
 * Returns an initialized map of String(Profile id)->Profile.
 */
protected Map<String, Profile> getProfileMap() {
    if (profiles != null) {
        Map<String, Profile> result = profiles.get();
        if (result != null)
            return result;
    }
    Map<String, Profile> result = restore();
    if (result == null)
        result = new LinkedHashMap<String, Profile>(8);
    profiles = new SoftReference<Map<String, Profile>>(result);
    if (updateSelfProfile) {
        //update self profile on first load
        updateSelfProfile(result);
    }
    return result;
}

public synchronized void updateProfile(Profile profile) {
    String id = profile.getProfileId();
    Profile current = internalGetProfile(id);
    if (current == null)
        throw new IllegalArgumentException(NLS.bind(Messages.profile_does_not_exist, id));

    ProfileLock lock = profileLocks.get(id);
    lock.checkLocked();

    current.clearLocalProperties();
    current.clearInstallableUnits();

    current.addProperties(profile.getLocalProperties());
}

```



```

IQueryResult<IInstallableUnit> queryResult = profile.query(QueryUtil.createIUNAnyQuery(), null);
for (Iterator<IInstallableUnit> queryResultIt = queryResult.iterator(); queryResultIt.hasNext();) {
    IInstallableUnit iu = queryResultIt.next();
    current.addInstallableUnit(iu);
    Map<String, String> iuProperties = profile.getInstallableUnitProperties(iu);
    if (iuProperties != null)
        current.addInstallableUnitProperties(iu, iuProperties);
}
saveProfile(current);
profile.clearOrphanedInstallableUnitProperties();
profile.setTimestamp(current.getTimestamp());
broadcastChangeEvent(id, IProfileEvent.CHANGED);
}

public IProfile addProfile(String id) throws ProvisionException {
    return addProfile(id, null, null);
}

public IProfile addProfile(String id, Map<String, String> profileProperties) throws ProvisionException {
    return addProfile(id, profileProperties, null);
}

public synchronized IProfile addProfile(String id, Map<String, String> profileProperties, String parentId) throws
ProvisionException {
    if (SELF.equals(id))
        id = self;
    Map<String, Profile> profileMap = getProfileMap();
    if (profileMap.get(id) != null)
        throw new ProvisionException(NLS.bind(Messages.Profile_Duplicate_Root_Profile_Id, id));

    Profile parent = null;
    if (parentId != null) {
        if (SELF.equals(parentId))
            parentId = self;
        parent = profileMap.get(parentId);
        if (parent == null)
            throw new ProvisionException(NLS.bind(Messages.Profile_Parent_Not_Found, parentId));
    }

    Profile profile = new Profile(agent, id, parent, profileProperties);
    if (surrogateProfileHandler != null && surrogateProfileHandler.isSurrogate(profile))
        profile.setSurrogateProfileHandler(surrogateProfileHandler);
    profileMap.put(id, profile);
    saveProfile(profile);
    broadcastChangeEvent(id, IProfileEvent.ADDED);
    return profile.snapshot();
}

```

```

public synchronized void removeProfile(String profileId) {
    if (SELF.equals(profileId))
        profileId = self;
    //note we need to maintain a reference to the profile map until it is persisted to prevent gc
    Map<String, Profile> profileMap = getProfileMap();
    Profile profile = profileMap.get(profileId);
    if (profile == null)
        return;

    List<String> subProfileIds = profile.getSubProfileIds();
    for (int i = 0; i < subProfileIds.size(); i++) {
        removeProfile(subProfileIds.get(i));
    }
    internalLockProfile(profile);
    // The above call recursively locked the parent(s). So save it away to rewind the locking process.
    IProfile savedParent = profile.getParentProfile();
    try {
        profile.setParent(null);
    } finally {
        internalUnlockProfile(profile);
        // The above call will not recurse since parent is now null. So do it explicitly.
        if (savedParent != null) {
            internalUnlockProfile(savedParent);
        }
    }
    profileMap.remove(profileId);
    profileLocks.remove(profileId);
    // deleting the profile removes the folder and subsequently all
    // the profile state properties as well since they are stored in a file in the folder.
    deleteProfile(profileId);
    broadcastChangeEvent(profileId, IProfileEvent.REMOVED);
}

public synchronized void removeProfile(String id, long timestamp) throws ProvisionException {
    if (SELF.equals(id))
        id = self;

    if (profiles != null) {
        IProfile profile = getProfile(id);
        if (profile != null && profile.getTimestamp() == timestamp)
            throw new ProvisionException(Messages.SimpleProfileRegistry_CannotRemoveCurrentSnapshot);
    }

    File profileDirectory = getProfileFolder(id);
    if (!profileDirectory.isDirectory())
        return;

    File profileFile = new File(profileDirectory, Long.toString(timestamp) + PROFILE_GZ_EXT);

```

```

if (!profileFile.exists()) {
    profileFile = new File(profileDirectory, Long.toString(timestamp) + PROFILE_EXT);
    if (!profileFile.exists())
        return;
}
FileUtils.deleteAll(profileFile);
// Ignore the return value here. If there was a problem removing the profile state
// properties we don't want to fail the whole operation since the profile state itself
// was removed successfully
removeProfileStateProperties(id, timestamp, null);
}

private void broadcastChangeEvent(String profileId, int reason) {
    if (eventBus != null)
        eventBus.publishEvent(new ProfileEvent(profileId, reason));
}

/**
 * Restores the profile registry from disk, and returns the loaded profile map.
 * Returns <code>null</code> if unable to read the registry.
 */
private Map<String, Profile> restore() {
    if (store == null || !store.isDirectory())
        throw new IllegalStateException(NLS.bind(Messages.reg_dir_not_available, store));

    Parser parser = new Parser(EngineActivator.getContext(), EngineActivator.ID);
    File[] profileDirectories = store.listFiles(new FileFilter() {
        public boolean accept(File pathname) {
            return pathname.getName().endsWith(PROFILE_EXT) && pathname.isDirectory();
        }
    });
    // protect against NPE
    if (profileDirectories == null) {
        parser.getProfileMap();
    }
    for (int i = 0; i < profileDirectories.length; i++) {
        String directoryName = profileDirectories[i].getName();
        String profileId = unescape(directoryName.substring(0, directoryName.lastIndexOf(PROFILE_EXT)));
        ProfileLock lock = profileLocks.get(profileId);
        if (lock == null) {
            lock = new ProfileLock(this, profileDirectories[i]);
            profileLocks.put(profileId, lock);
        }

        boolean locked = false;
        if (lock.processHoldsLock() || (locked = lock.lock())) {
            try {
                File profileFile = findLatestProfileFile(profileDirectories[i]);
            }
        }
    }
}

```

```

    if (profileFile != null) {
        try {
            parser.parse(profileFile);
        } catch (IOException e) {
            LogHelper.log(new Status(IStatus.ERROR, EngineActivator.ID, NLS.bind(Messages.error_parsing_profile,
profileFile), e));
        }
    }
    } finally {
        if (locked)
            lock.unlock();
    }
    } else {
        // could not lock the profile, so add a place holder
        parser.addProfilePlaceHolder(profileId);
    }
    }
    return parser.getProfileMap();
}

private File findLatestProfileFile(File profileDirectory) {
    File latest = null;
    long latestTimestamp = 0;
    File[] profileFiles = profileDirectory.listFiles(new FileFilter() {
        public boolean accept(File pathname) {
            return (pathname.getName().endsWith(PROFILE_GZ_EXT) || pathname.getName().endsWith(PROFILE_EXT))
&& !pathname.isDirectory();
        }
    });
    // protect against NPE
    if (profileFiles == null)
        return null;
    for (int i = 0; i < profileFiles.length; i++) {
        File profileFile = profileFiles[i];
        String fileName = profileFile.getName();
        try {
            long timestamp = Long.parseLong(fileName.substring(0, fileName.indexOf(PROFILE_EXT)));
            if (timestamp > latestTimestamp) {
                latestTimestamp = timestamp;
                latest = profileFile;
            }
        } catch (NumberFormatException e) {
            // ignore
        }
    }
    return latest;
}

```

```

private void saveProfile(Profile profile) {
    File profileDirectory = getProfileFolder(profile.getProfileId());
    profileDirectory.mkdir();

    long previousTimestamp = profile.getTimestamp();
    long currentTimestamp = System.currentTimeMillis();
    if (currentTimestamp <= previousTimestamp)
        currentTimestamp = previousTimestamp + 1;
    boolean shouldGzipFile = shouldGzipFile(profile);
    File profileFile = new File(profileDirectory, Long.toString(currentTimestamp) + (shouldGzipFile ?
PROFILE_GZ_EXT : PROFILE_EXT));

    // Log a stack trace to see who is writing the profile.
    if (DebugHelper.DEBUG_PROFILE_REGISTRY)
        DebugHelper.debug(PROFILE_REGISTRY, "Saving profile to: " + profileFile.getAbsolutePath()); //$NON-NLS-
1$

    profile.setTimestamp(currentTimestamp);
    profile.setChanged(false);
    OutputStream os = null;
    try {
        if (shouldGzipFile)
            os = new BufferedOutputStream(new GZIPOutputStream(new FileOutputStream(profileFile)));
        else
            os = new BufferedOutputStream(new FileOutputStream(profileFile));
        Writer writer = new Writer(os);
        writer.writeProfile(profile);
    } catch (IOException e) {
        profile.setTimestamp(previousTimestamp);
        profileFile.delete();
        LogHelper.log(new Status(IStatus.ERROR, EngineActivator.ID, NLS.bind(Messages.error_persisting_profile,
profile.getProfileId(), e)));
    } finally {
        try {
            if (os != null)
                os.close();
        } catch (IOException e) {
            // ignore
        }
    }
}

public void setEventBus(IProvisioningEventBus bus) {
    this.eventBus = bus;
}

/**
 * Returns whether the profile file for the given profile should be written in gzip format.

```

```

*/
private boolean shouldGzipFile(Profile profile) {
    //check system property controlling compression
    String format = EngineActivator.getContext().getProperty(EngineActivator.PROP_PROFILE_FORMAT);
    if (format != null && format.equals(EngineActivator.PROFILE_FORMAT_UNCOMPRESSED))
        return false;

    //check whether the profile contains the p2 engine from 3.5.0 or earlier
    return profile.available(QueryUtil.createIUQuery("org.eclipse.equinox.p2.engine", new VersionRange("[0.0.0,
1.0.101)")), null).isEmpty(); //$NON-NLS-1$ //$NON-NLS-2$
}

private void deleteProfile(String profileId) {
    File profileDirectory = getProfileFolder(profileId);
    FileUtils.deleteAll(profileDirectory);
}

/**
 * Converts a profile id into a string that can be used as a file name in any file system.
 */
public static String escape(String toEscape) {
    StringBuffer buffer = new StringBuffer();
    int length = toEscape.length();
    for (int i = 0; i < length; ++i) {
        char ch = toEscape.charAt(i);
        switch (ch) {
            case '\\':
            case '/':
            case ':':
            case '*':
            case '?':
            case '"':
            case '<':
            case '>':
            case '|':
            case '%':
                buffer.append("%" + (int) ch + ";"); //$NON-NLS-1$ //$NON-NLS-2$
                break;
            default:
                buffer.append(ch);
        }
    }
    return buffer.toString();
}

public static String unescape(String text) {
    if (text.indexOf('%') == -1)
        return text;
}

```

```

StringBuffer buffer = new StringBuffer();
int length = text.length();
for (int i = 0; i < length; ++i) {
    char ch = text.charAt(i);
    if (ch == '%') {
        int colon = text.indexOf(':', i);
        if (colon == -1)
            throw new IllegalStateException("error unescaping the sequence at character (" + i + ") for " + text + ". Expected
%{int};."); //$NON-NLS-1$ //$NON-NLS-2$ //$NON-NLS-3$
        ch = (char) Integer.parseInt(text.substring(i + 1, colon));
        i = colon;
    }
    buffer.append(ch);
}
return buffer.toString();
}

```

```

static class Writer extends ProfileWriter {

    public Writer(OutputStream output) throws IOException {
        super(output, new ProcessingInstruction[]
{ProcessingInstruction.makeTargetVersionInstruction(PROFILE_TARGET,
ProfileXMLConstants.CURRENT_VERSION)});
    }
}

/*
 * Parser for the contents of a SimpleProfileRegistry,
 * as written by the Writer class.
 */
class Parser extends ProfileParser {
    private final Map<String, ProfileHandler> profileHandlers = new HashMap<String, ProfileHandler>();

    public Parser(BundleContext context, String bundleId) {
        super(context, bundleId);
    }

    public void addProfilePlaceHolder(String profileId) {
        profileHandlers.put(profileId, new ProfileHandler(profileId));
    }

    public void parse(File file) throws IOException {
        InputStream is;
        if (file.getName().endsWith(PROFILE_GZ_EXT)) {
            is = new BufferedInputStream(new GZIPInputStream(new FileInputStream(file)));
        } else { // backward compatibility. SimpleProfileRegistry doesn't write non-gzipped profiles any more.
            is = new BufferedInputStream(new FileInputStream(file));
        }
    }
}

```

```

    }
    parse(is);
    }

public synchronized void parse(InputStream stream) throws IOException {
    this.status = null;
    try {
        // TODO: currently not caching the parser since we make no assumptions
        // or restrictions on concurrent parsing
        getParser();
        ProfileHandler profileHandler = new ProfileHandler();
        xmlReader.setContentHandler(new ProfileDocHandler(PROFILE_ELEMENT, profileHandler));
        xmlReader.parse(new InputSource(stream));
        profileHandlers.put(profileHandler.getProfileId(), profileHandler);
    } catch (SAXException e) {
        throw new IOException(e.getMessage());
    } catch (ParserConfigurationException e) {
        throw new IOException(e.getMessage());
    } finally {
        stream.close();
    }
}

protected Object getRootObject() {
    return this;
}

public Map<String, Profile> getProfileMap() {
    Map<String, Profile> profileMap = new HashMap<String, Profile>();
    for (String profileId : profileHandlers.keySet()) {
        addProfile(profileId, profileMap);
    }
    return profileMap;
}

private void addProfile(String profileId, Map<String, Profile> profileMap) {
    if (profileMap.containsKey(profileId))
        return;

    ProfileHandler profileHandler = profileHandlers.get(profileId);
    Profile parentProfile = null;

    String parentId = profileHandler.getParentId();
    if (parentId != null) {
        addProfile(parentId, profileMap);
        parentProfile = profileMap.get(parentId);
    }
}

```



```

Profile profile = new Profile(agent, profileId, parentProfile, profileHandler.getProperties());
if (surrogateProfileHandler != null && surrogateProfileHandler.isSurrogate(profile))
    profile.setSurrogateProfileHandler(surrogateProfileHandler);

profile.setTimestamp(profileHandler.getTimestamp());

IInstallableUnit[] ius = profileHandler.getInstallableUnits();
if (ius != null) {
    for (int i = 0; i < ius.length; i++) {
        IInstallableUnit iu = ius[i];
        profile.addInstallableUnit(iu);
        Map<String, String> iuProperties = profileHandler.getIUProperties(iu);
        if (iuProperties != null) {
            for (Entry<String, String> entry : iuProperties.entrySet()) {
                profile.setInstallableUnitProperty(iu, entry.getKey(), entry.getValue());
            }
        }
    }
}
profile.setChanged(false);
profileMap.put(profileId, profile);
}

private final class ProfileDocHandler extends DocHandler {

    public ProfileDocHandler(String rootName, RootHandler rootHandler) {
        super(rootName, rootHandler);
    }

    public void processingInstruction(String target, String data) throws SAXException {
        if (ProfileXMLConstants.PROFILE_TARGET.equals(target)) {
            Version repositoryVersion = extractPIVersion(target, data);
            if (!ProfileXMLConstants.XML_TOLERANCE.isIncluded(repositoryVersion)) {
                throw new SAXException(NLS.bind(Messages.SimpleProfileRegistry_Parser_Has_Incompatible_Version,
                    repositoryVersion, ProfileXMLConstants.XML_TOLERANCE));
            }
        }
    }

    protected String getErrorMessage() {
        return Messages.SimpleProfileRegistry_Parser_Error_Parsing_Registry;
    }

    public String toString() {
        // TODO:
        return null;
    }
}

```

```

}

public synchronized boolean isCurrent(IProfile profile) {
    Profile internalProfile = internalGetProfile(profile.getProfileId());
    if (internalProfile == null)
        throw new IllegalArgumentException(NLS.bind(Messages.profile_not_registered, profile.getProfileId()));

    if (!internalLockProfile(internalProfile))
        throw new IllegalStateException(Messages.SimpleProfileRegistry_Profile_in_use);

    try {
        return (!((Profile) profile).isChanged() && checkTimestamps(profile, internalProfile));
    } finally {
        internalUnlockProfile(internalProfile);
    }
}

public synchronized void lockProfile(Profile profile) {
    Profile internalProfile = internalGetProfile(profile.getProfileId());
    if (internalProfile == null)
        throw new IllegalArgumentException(NLS.bind(Messages.profile_not_registered, profile.getProfileId()));

    if (!internalLockProfile(internalProfile))
        throw new IllegalStateException(Messages.SimpleProfileRegistry_Profile_in_use);

    boolean isCurrent = false;
    try {
        if (profile.isChanged()) {
            if (DebugHelper.DEBUG_PROFILE_REGISTRY)
                DebugHelper.debug(PROFILE_REGISTRY, "Profile is marked as changed."); //$NON-NLS-1$
            throw new IllegalStateException(NLS.bind(Messages.profile_changed, profile.getProfileId()));
        }
        if (!checkTimestamps(profile, internalProfile)) {
            if (DebugHelper.DEBUG_PROFILE_REGISTRY)
                DebugHelper.debug(PROFILE_REGISTRY, "Unexpected timestamp difference in profile."); //$NON-NLS-1$
            throw new IllegalStateException(NLS.bind(Messages.profile_not_current, new String[] {profile.getProfileId(),
                Long.toString(internalProfile.getTimestamp()), Long.toString(profile.getTimestamp())}));
        }
        isCurrent = true;
    } finally {
        // this check is done here to ensure we unlock even if a runtime exception is thrown
        if (!isCurrent)
            internalUnlockProfile(internalProfile);
    }
}

private boolean internalLockProfile(IProfile profile) {

```

```

ProfileLock lock = profileLocks.get(profile.getProfileId());
if (lock == null) {
    lock = new ProfileLock(this, getProfileFolder(profile.getProfileId()));
    profileLocks.put(profile.getProfileId(), lock);
}
return lock.lock();
}

private boolean checkTimestamps(IProfile profile, IProfile internalProfile) {
    long[] timestamps = listProfileTimestamps(profile.getProfileId());
    if (timestamps.length == 0) {
        if (DebugHelper.DEBUG_PROFILE_REGISTRY)
            DebugHelper.debug(PROFILE_REGISTRY, "check timestamp: expected " + profile.getTimestamp() + " but no
profiles were found"); //$NON-NLS-1$ //$NON-NLS-2$
        resetProfiles();
        return false;
    }

    long currentTimestamp = (timestamps.length == 0) ? -1 : timestamps[timestamps.length - 1];
    if (profile.getTimestamp() != currentTimestamp) {
        if (DebugHelper.DEBUG_PROFILE_REGISTRY)
            DebugHelper.debug(PROFILE_REGISTRY, "check timestamp: expected " + profile.getTimestamp() + " but was "
+ currentTimestamp); //$NON-NLS-1$ //$NON-NLS-2$
        if (internalProfile.getTimestamp() != currentTimestamp)
            resetProfiles();
        return false;
    }

    return true;
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.internal.provisional.p2.engine.IProfileRegistry#containsProfile(java.lang.String)
 */
public synchronized boolean containsProfile(String id) {
    if (SELF.equals(id))
        id = self;
    //null check done after self check, because self can be null
    if (id == null)
        return false;

    // check profiles to avoid restoring the profile registry
    if (profiles != null)
        if (getProfile(id) != null)
            return true;

    File profileDirectory = getProfileFolder(id);
    if (!profileDirectory.isDirectory())

```

```

    return false;
    File[] profileFiles = profileDirectory.listFiles(new FileFilter() {
        public boolean accept(File pathname) {
            return (pathname.getName().endsWith(PROFILE_GZ_EXT) || pathname.getName().endsWith(PROFILE_EXT))
&& pathname.isFile();
        }
    });
    return profileFiles.length > 0;
}

public synchronized void resetProfiles() {
    profiles = null;
}

public synchronized void unlockProfile(IProfile profile) {
    Profile internalProfile = internalGetProfile(profile.getProfileId());
    if (internalProfile == null)
        throw new IllegalArgumentException(NLS.bind(Messages.profile_not_registered, profile.getProfileId()));
    internalUnlockProfile(internalProfile);
}

private void internalUnlockProfile(IProfile profile) {
    ProfileLock lock = profileLocks.get(profile.getProfileId());
    lock.unlock();
}

public Profile validate(IProfile candidate) {
    if (candidate instanceof Profile)
        return (Profile) candidate;

    throw new IllegalArgumentException("Profile incompatible: expected " + Profile.class.getName() + " but was " +
((candidate != null) ? candidate.getClass().getName() : "null") + "."); //$NON-NLS-1$ //$NON-NLS-2$ //$NON-NLS-
NLS-3$ //$NON-NLS-4$
}

public synchronized File getProfileDataDirectory(String id) {
    if (SELF.equals(id))
        id = self;
    File profileDirectory = getProfileFolder(id);
    File profileDataArea = new File(profileDirectory, DATA_EXT);
    if (!profileDataArea.isDirectory() && !profileDataArea.mkdir())
        throw new IllegalStateException("Could not create profile data area " + profileDataArea.getAbsolutePath() + "for: "
+ id); //$NON-NLS-1$ //$NON-NLS-2$
    return profileDataArea;
}

/*(non-Javadoc)
 * @see org.eclipse.equinox.p2.core.spi.IAgentService#start()

```

```

*/
public void start() {
    //nothing to do
}

/*(non-Javadoc)
 * @see org.eclipse.equinox.p2.core.spi.IAgentService#stop()
 */
public void stop() {
    try {
        //ensure there are no more profile preference save jobs running
        Job.getJobManager().join(ProfilePreferences.PROFILE_SAVE_JOB_FAMILY, null);
    } catch (InterruptedException e) {
        //ignore
    }
}

// Class representing a particular instance of a profile's state properties.
// Can be used for caching.
class ProfileStateProperties {
    private String id;
    private File file;
    private long timestamp;
    private Properties properties;

    ProfileStateProperties(String id, File file, Properties properties) {
        this.id = id;
        this.file = file;
        this.properties = properties;
        this.timestamp = file.lastModified();
    }

    // return true if the cached timestamp is the same as the one on disk
    boolean isCurrent() {
        return file.lastModified() == timestamp;
    }

    String getId() {
        return id;
    }

    Properties getProperties() {
        return this.properties;
    }
}

/*
 * Return the folder on disk associated with the profile with the given identifier.

```

```

*/
private File getProfileFolder(String id) {
    return new File(store, escape(id) + PROFILE_EXT);
}

/*
 * Read and return the state properties for the profile with the given id.
 * If one does not exist, then return an empty Properties file.
 * If there were problems reading the file then return throw an exception.
 */
private Properties readStateProperties(String id) throws ProvisionException {
    if (SELF.equals(id))
        id = self;

    // if the last cached value is the one we are interested in and up-to-date
    // then don't bother reading from disk
    if (lastAccessedProperties != null && id.equals(lastAccessedProperties.getId()) &&
        lastAccessedProperties.isCurrent())
        return lastAccessedProperties.getProperties();

    File profileDirectory = getProfileFolder(id);
    if (!profileDirectory.isDirectory())
        throw new ProvisionException(new Status(IStatus.ERROR, EngineActivator.ID,
            NLS.bind(Messages.SimpleProfileRegistry_Bad_profile_location, profileDirectory.getPath())));

    File file = new File(profileDirectory, PROFILE_PROPERTIES_FILE);
    Properties properties = new Properties();
    if (!file.exists())
        return properties;
    InputStream input = null;
    try {
        input = new BufferedInputStream(new FileInputStream(file));
        properties.load(input);
    } catch (IOException e) {
        throw new ProvisionException(new Status(IStatus.ERROR, EngineActivator.ID,
            Messages.SimpleProfileRegistry_States_Error_Reading_File, e));
    } finally {
        if (input != null)
            try {
                input.close();
            } catch (IOException e) {
                // Ignore
            }
    }
}

//cache the value before we return
lastAccessedProperties = new ProfileStateProperties(id, file, properties);
return properties;

```

```

}

/*
 * Write the given state properties to disk for the specified profile.
 */
private IStatus writeStateProperties(String id, Properties properties) {
    if (SELF.equals(id))
        id = self;

    File profileDirectory = getProfileFolder(id);
    File file = new File(profileDirectory, PROFILE_PROPERTIES_FILE);
    OutputStream output = null;
    Properties prunedProperties = properties;
    try {
        output = new BufferedOutputStream(new FileOutputStream(file));
        prunedProperties = pruneStateProperties(id, properties);
        prunedProperties.store(output, null);
        output.flush();
    } catch (IOException e) {
        return new Status(IStatus.ERROR, EngineActivator.ID,
Messages.SimpleProfileRegistry_States_Error_Writing_File, e);
    } finally {
        try {
            if (output != null)
                output.close();
        } catch (IOException e) {
            // ignore
        }
    }
    // cache the value
    lastAccessedProperties = new ProfileStateProperties(id, file, prunedProperties);
    return Status.OK_STATUS;
}

// Only write state properties for state timestamps that still exist
// TODO: Do we want to expose this method as API?
// TODO: Do we want to run this method on every write or just after specific elapsed times since the last Prune?
private Properties pruneStateProperties(String id, Properties properties) {
    Properties result = new Properties();
    long[] timestamps = listProfileTimestamps(id);
    HashSet<String> timestampsSet = new HashSet<String>(timestamps.length);
    for (int i = 0; i < timestamps.length; i++) {
        timestampsSet.add(String.valueOf(timestamps[i]));
    }

    Enumeration<Object> keys = properties.keys();
    while (keys.hasMoreElements()) {
        String key = (String) keys.nextElement();

```

```

int index = key.indexOf('.');
if (index > -1) {
    String timestamp = key.substring(0, index);
    if (timestampsSet.contains(timestamp)) {
        result.put(key, properties.get(key));
    }
}
}
return result;
}

/*
 * Ensure a profile with the given identifier has a state with the specified timestamp. Return
 * a status object indicating success or failure.
 */
private IStatus validateState(String id, long timestamp) {
    long[] states = listProfileTimestamps(id);
    for (long ts : states)
        if (ts == timestamp)
            return Status.OK_STATUS;
    return new Status(IStatus.ERROR, EngineActivator.ID,
(NLS.bind(Messages.SimpleProfileRegistry_state_not_found, timestamp, id)));
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.p2.engine.IProfileRegistry#setProfileStateProperties(java.lang.String, long,
java.util.Map)
 */
public IStatus setProfileStateProperties(String id, long timestamp, Map<String, String> propertiesToAdd) {
    if (id == null || propertiesToAdd == null)
        throw new NullPointerException();
    IStatus result = validateState(id, timestamp);
    if (!result.isOK())
        return result;
    Profile internalProfile = internalGetProfile(id);
    lockProfile(internalProfile);
    try {
        Properties properties = readStateProperties(id);
        for (Map.Entry<String, String> entry : propertiesToAdd.entrySet()) {
            // property key format is timestamp.key
            properties.put(timestamp + "." + entry.getKey(), entry.getValue()); //$NON-NLS-1$
        }
        writeStateProperties(id, properties);
    } catch (ProvisionException e) {
        return e.getStatus();
    } finally {
        unlockProfile(internalProfile);
    }
}

```



```

return Status.OK_STATUS;
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.p2.engine.IProfileRegistry#setProfileStateProperty(java.lang.String, long,
java.lang.String, java.lang.String)
 */
public IStatus setProfileStateProperty(String id, long timestamp, String key, String value) {
    if (id == null || key == null || value == null)
        throw new NullPointerException();
    Map<String, String> properties = new HashMap<String, String>();
    properties.put(key, value);
    return setProfileStateProperties(id, timestamp, properties);
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.p2.engine.IProfileRegistry#getProfileStateProperties(java.lang.String, long)
 */
public Map<String, String> getProfileStateProperties(String id, long timestamp) {
    if (id == null)
        throw new NullPointerException();

    Map<String, String> result = new HashMap<String, String>();
    String timestampString = String.valueOf(timestamp);
    int keyOffset = timestampString.length() + 1;
    Profile internalProfile = internalGetProfile(id);
    lockProfile(internalProfile);
    try {
        Properties properties = readStateProperties(id);
        Iterator<Object> keys = properties.keySet().iterator();
        while (keys.hasNext()) {
            String key = (String) keys.next();
            if (key.indexOf(timestampString) == 0)
                result.put(key.substring(keyOffset), properties.getProperty(key));
        }
    } catch (ProvisionException e) {
        LogHelper.log(e);
    } finally {
        unlockProfile(internalProfile);
    }
    return result;
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.p2.engine.IProfileRegistry#getProfileStateProperties(java.lang.String, java.lang.String)
 */
public Map<String, String> getProfileStateProperties(String id, String userKey) {
    if (id == null || userKey == null)

```

```

throw new NullPointerException();

Map<String, String> result = new HashMap<String, String>();
Profile internalProfile = internalGetProfile(id);
lockProfile(internalProfile);
try {
    Properties properties = readStateProperties(id);
    Iterator<Object> keys = properties.keySet().iterator();
    while (keys.hasNext()) {
        // property key format is timestamp.key
        String key = (String) keys.next();
        int index = key.indexOf('.');
        if (index != -1 && index + 1 != key.length() && key.substring(index + 1).equals(userKey)) {
            result.put(key.substring(0, index), properties.getProperty(key));
        }
    }
} catch (ProvisionException e) {
    LogHelper.log(e);
} finally {
    unlockProfile(internalProfile);
}
return result;
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.p2.engine.IProfileRegistry#removeProfileStateProperties(java.lang.String, long,
java.util.Collection)
 */
public IStatus removeProfileStateProperties(String id, long timestamp, Collection<String> keys) {
    if (id == null)
        throw new NullPointerException();
    // return if there is no work to do
    if (keys != null && keys.size() == 0)
        return Status.OK_STATUS;

    Profile internalProfile = internalGetProfile(id);
    lockProfile(internalProfile);
    try {
        Properties properties = readStateProperties(id);
        String timestampString = String.valueOf(timestamp);
        if (keys == null) {
            // remove all keys
            for (Iterator<Object> already = properties.keySet().iterator(); already.hasNext();) {
                String key = (String) already.next();
                // property key is timestamp.key
                if (key.indexOf(timestampString) == 0)
                    already.remove();
            }
        }
    }

```

```

    } else {
    for (String key : keys) {
        // property key format is timestamp.key
        if (key != null)
            properties.remove(timestampString + "." + key); //$NON-NLS-1$
        }
    }
    writeStateProperties(id, properties);
} catch (ProvisionException e) {
    return e.getStatus();
} finally {
    unlockProfile(internalProfile);
}
return Status.OK_STATUS;
}
}
}
/*****
* Copyright (c) 2007, 2010 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.equinox.internal.p2.engine;

import java.util.*;
import org.eclipse.core.runtime.*;
import org.eclipse.equinox.p2.engine.*;
import org.eclipse.equinox.p2.metadata.IInstallableUnit;
import org.eclipse.equinox.p2.query.*;

/**
 * @since 2.0
 */
public class ProvisioningPlan implements IProvisioningPlan {

    final IProfile profile;
    final List<Operand> operands = new ArrayList<Operand>();
    final ProvisioningContext context;
    IStatus status;
    private IProvisioningPlan installerPlan;

    public ProvisioningPlan(IProfile profile, Operand[] operands, ProvisioningContext context) {
        this(Status.OK_STATUS, profile, operands, context, null);
    }
}

```

```

public ProvisioningPlan(IStatus status, IProfile profile, ProvisioningContext context, IProvisioningPlan
installerPlan) {
    this(status, profile, null, context, installerPlan);
}

public ProvisioningPlan(IStatus status, IProfile profile, Operand[] operands, ProvisioningContext context,
IProvisioningPlan installerPlan) {
    Assert.isNotNull(profile);
    this.status = status;
    this.profile = profile;
    if (operands != null)
        this.operands.addAll(Arrays.asList(operands));
    this.context = (context == null) ? new ProvisioningContext(profile.getProvisioningAgent()) : context;
    this.installerPlan = installerPlan;
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.p2.engine.IProvisioningPlan#getStatus()
 */
public IStatus getStatus() {
    return status;
}

public void setStatus(IStatus status) {
    this.status = status;
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.p2.engine.IProvisioningPlan#getProfile()
 */
public IProfile getProfile() {
    return profile;
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.p2.engine.IProvisioningPlan#getOperands()
 */
public Operand[] getOperands() {
    return operands.toArray(new Operand[operands.size()]);
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.p2.engine.IProvisioningPlan#getRemovals()
 */
public IQueryableView<IInstallableUnit> getRemovals() {
    return new QueryableView(false);
}

```

```

/* (non-Javadoc)
 * @see org.eclipse.equinox.p2.engine.IProvisioningPlan#getAdditions()
 */
public IQueryables<IInstallableUnit> getAdditions() {
    return new QueryablePlan(true);
}

private class QueryablePlan implements IQueryables<IInstallableUnit> {
    private boolean addition;

    public QueryablePlan(boolean add) {
        this.addition = add;
    }

    public IQueryResult<IInstallableUnit> query(IQuery<IInstallableUnit> query, IProgressMonitor monitor) {
        if (operands == null || status.getSeverity() == IStatus.ERROR)
            return Collector.emptyCollector();
        Collection<IInstallableUnit> list = new ArrayList<IInstallableUnit>();
        for (Operand operand : operands) {
            if (!(operand instanceof InstallableUnitOperand))
                continue;
            InstallableUnitOperand op = ((InstallableUnitOperand) operand);
            IInstallableUnit iu = addition ? op.second() : op.first();
            if (iu != null)
                list.add(iu);
        }
        return query.perform(list.iterator());
    }
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.p2.engine.IProvisioningPlan#getInstallerPlan()
 */
public IProvisioningPlan getInstallerPlan() {
    return installerPlan;
}

public ProvisioningContext getContext() {
    return context;
}

public void setInstallerPlan(IProvisioningPlan p) {
    installerPlan = p;
}

public void addInstallableUnit(IInstallableUnit iu) {
    operands.add(new InstallableUnitOperand(null, iu));
}

```

```

}

public void removeInstallableUnit(IInstallableUnit iu) {
    operands.add(new InstallableUnitOperand(iu, null));
}

public void updateInstallableUnit(IInstallableUnit iu1, IInstallableUnit iu2) {
    operands.add(new InstallableUnitOperand(iu1, iu2));
}

public void setProfileProperty(String name, String value) {
    String currentValue = profile.getProperty(name);
    if (value == null && currentValue == null)
        return;
    operands.add(new PropertyOperand(name, currentValue, value));
}

public void setInstallableUnitProfileProperty(IInstallableUnit iu, String name, String value) {
    String currentValue = profile.getInstallableUnitProperty(iu, name);
    if (value == null && currentValue == null)
        return;
    operands.add(new InstallableUnitPropertyOperand(iu, name, currentValue, value));
}
}
}
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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
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 *****/
package org.eclipse.equinox.p2.engine;

import org.eclipse.core.runtime.IStatus;
import org.eclipse.equinox.p2.metadata.IInstallableUnit;
import org.eclipse.equinox.p2.query.IQueryable;

/**
 * A provisioning plan describes a proposed set of changes to a profile. The
 * proposed changes may represent a valid and consistent set of changes, or it
 * may represent a set of changes that would cause errors if executed. In this
 * case the plan contains information about the severity and explanation for the
 * problems.
 *
 * @noimplement This interface is not intended to be implemented by clients.

```

```

* @noextend This interface is not intended to be extended by clients.
* @since 2.0
*/
public interface IProvisioningPlan {

/**
 * Returns the proposed set of installable units to be added to the profile.
 *
 * @return The proposed profile additions
 */
public IQueryable<IInstallableUnit> getAdditions();

/**
 * Returns the provisioning context in which this plan was created.
 *
 * @return The plan's provisioning context
 */
public ProvisioningContext getContext();

/**
 * Returns a plan describing the proposed set of changes to the provisioning infrastructure
 * required by this plan. The installer changes must be performed before this plan
 * can be successfully executed.
 *
 * @return The installer plan.
 */
public IProvisioningPlan getInstallerPlan();

/**
 * Returns the profile that this plan will operate on.
 *
 * @return The target profile for this plan
 */
public IProfile getProfile();

/**
 * Returns the proposed set of installable units to be removed from this profile.
 *
 * @return The proposed profile removals.
 */
public IQueryable<IInstallableUnit> getRemovals();

/**
 * Returns the overall plan status. The severity of this status indicates
 * whether the plan can be successfully executed or not:
 * <ul>
 * <li>A status of { @link IStatus#OK } indicates that the plan can be executed successfully.</li>
 * <li>A status of { @link IStatus#INFO } or { @link IStatus#WARNING } indicates

```

```

* that the plan can be executed but may cause problems.</li>
* <li>A status of { @link IStatus#ERROR } indicates that the plan cannot be executed
* successfully.</li>
* <li>A status of { @link IStatus#CANCEL } indicates that the plan computation was
* canceled and is incomplete. A canceled plan cannot be executed.</li>
* </ul>
*
* @return The overall plan status.
*/
public IStatus getStatus();

/**
* Adds an installable unit to the plan. This will cause the given installable unit
* to be installed into the profile when this plan is executed by the engine.
* <p>
* This is an advanced operation that should only be performed by clients crafting
* their own custom plan. Most clients should instead use a planner service
* to construct a valid plan based on a profile change request.
* </p>
* @param iu the installable unit to add
*/
public void addInstallableUnit(IInstallableUnit iu);

/**
* Removes an installable unit from the plan. This will cause the given installable unit
* to be remove from the profile when this plan is executed by the engine.
* <p>
* This is an advanced operation that should only be performed by clients crafting
* their own custom plan. Most clients should instead use a planner service
* to construct a valid plan based on a profile change request.
* </p>
* @param iu the installable unit to add
*/
public void removeInstallableUnit(IInstallableUnit iu);

/**
* Adds a profile property corresponding to the given installable unit to the plan.
* This will cause the given installable unit property to be installed into the profile
* when this plan is executed by the engine.
* <p>
* This is an advanced operation that should only be performed by clients crafting
* their own custom plan. Most clients should instead use a planner service
* to construct a valid plan based on a profile change request.
* </p>
* @param iu the installable unit to set a property for
* @param name the property name
* @param value the property value
*/

```



```
public void setInstallableUnitProfileProperty(IInstallableUnit iu, String name, String value);
```

```
/**
```

```
* Sets the installer plan for this plan. The installer plan describes the set of changes  
* that must be made to the provisioning agent in order for this plan to execute  
* successfully.
```

```
* <p>
```

```
* This is an advanced operation that should only be performed by clients crafting  
* their own custom plan. Most clients should instead use a planner service  
* to construct a valid plan based on a profile change request.
```

```
* </p>
```

```
* @param installerPlan the plan describing changes to the provisioning agent
```

```
*/
```

```
public void setInstallerPlan(IProvisioningPlan installerPlan);
```

```
/**
```

```
* Sets a profile property in the plan. This will cause the given property  
* to be added to the profile when this plan is executed by the engine.
```

```
* <p>
```

```
* This is an advanced operation that should only be performed by clients crafting  
* their own custom plan. Most clients should instead use a planner service  
* to construct a valid plan based on a profile change request.
```

```
* </p>
```

```
* @param name the profile property name
```

```
* @param value the profile property value
```

```
*/
```

```
public void setProfileProperty(String name, String value);
```

```
/**
```

```
* Sets the overall plan status, describing whether the planner constructing  
* this plan believes it will install successfully, or whether it contains errors  
* or the plan computation has been canceled.
```

```
* <p>
```

```
* This is an advanced operation that should only be performed by clients crafting  
* their own custom plan. Most clients should instead use a planner service  
* to construct a valid plan based on a profile change request.
```

```
* </p>
```

```
* @param status the plan status
```

```
*/
```

```
public void setStatus(IStatus status);
```

```
/**
```

```
* Adds an instruction to replace one installable unit in the profile with another.  
* This will cause the 'from' installable unit property to be uninstalled from the profile  
* and the 'to' installable unit to be added to the profile when this plan is executed  
* by the engine.
```

```
* <p>
```

```
* This is an advanced operation that should only be performed by clients crafting
```

```

* their own custom plan. Most clients should instead use a planner service
* to construct a valid plan based on a profile change request.
* </p>
* @param from the installable unit to remove
* @param to the installable unit to add
*/
public void updateInstallableUnit(IInstallableUnit from, IInstallableUnit to);
}

```

1.534

org.eclipse.equinox.p2.extensionlocation

1.2.100.v20110510

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1.535

org.eclipse.equinox.p2.garbagecollector

1.0.200.v20110510

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/

package org.eclipse.equinox.internal.p2.garbagecollector;

```
import java.util.Map;  
import org.eclipse.equinox.app.IApplication;  
import org.eclipse.equinox.app.IApplicationContext;
```

```

import org.eclipse.equinox.p2.core.*;
import org.eclipse.equinox.p2.engine.IProfile;
import org.eclipse.equinox.p2.engine.IProfileRegistry;

/**
 * @since 1.0
 */
public class Application implements IApplication {

    private static final String DEFAULT_PROFILE_ID = "SDKProfile"; //$NON-NLS-1$
    private String profileId;
    private IProvisioningAgent agent;

    /**
     * Return the profile with the given id, or null if not found.
     */
    private IProfile getProfile(String id) {
        IProfileRegistry profileRegistry = (IProfileRegistry) agent.getService(IProfileRegistry.SERVICE_NAME);
        return profileRegistry == null ? null : profileRegistry.getProfile(id);
    }

    /** (non-Javadoc)
     * @see org.eclipse.equinox.app.IApplication#start(org.eclipse.equinox.app.IApplicationContext)
     */
    public Object start(IApplicationContext context) throws Exception {
        Map<?, ?> allArgs = context.getArguments();
        String[] args = (String[]) allArgs.get(IApplicationContext.APPLICATION_ARGS);
        processArguments(args);
        // if the user didn't give us a profile id, then use the default SDK one
        if (profileId == null)
            profileId = DEFAULT_PROFILE_ID;

        initializeServices();
        IProfile profile = getProfile(profileId);
        if (profile == null)
            throw new IllegalArgumentException("'" + profileId + "' is not a valid profile identifier."); //$NON-NLS-1$
        GarbageCollector gc = (GarbageCollector) agent.getService(GarbageCollector.SERVICE_NAME);
        gc.runGC(profile);
        agent.stop();
        return null;
    }

    private void initializeServices() throws ProvisionException {
        IProvisioningAgentProvider provider = GCActivator.getService(IProvisioningAgentProvider.class);
        agent = provider.createAgent(null);
    }
}

```

```

/* (non-Javadoc)
 * @see org.eclipse.equinox.app.IApplication#stop()
 */
public void stop() {
    // nothing to do
}

/*
 * Iterate over the command-line arguments and pull out the ones which are important to us.
 */
public void processArguments(String[] args) throws Exception {
    if (args == null)
        return;
    for (int i = 0; i < args.length; i++) {
        String opt = args[i];
        // check for args with parameters. If we are at the last argument or if the next
        // one has a '-' as the first character, then we can't have an arg with a parm so continue.
        if (i == args.length - 1 || args[i + 1].startsWith("-")) //$NON-NLS-1$
            continue;
        String arg = args[++i];
        if (opt.equalsIgnoreCase("-profile")) //$NON-NLS-1$
            profileId = arg;
    }
}
}
}

```

1.536 org.eclipse.equinox.p2.jarprocessor

1.0.200.v20110502-1955

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1.537 org.eclipse.equinox.p2.metadata

2.1.0.v20110510

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 *   IBM Corporation - ongoing development
 *   EclipseSource - ongoing development
 *****/
package org.eclipse.equinox.internal.p2.metadata;

import java.io.UnsupportedEncodingException;
import java.math.BigInteger;
import java.net.URI;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import org.eclipse.equinox.p2.metadata.ILicense;

/**
 * The License class represents a software license. A license has required body text
 * which may be the full text or an annotation. An optional URL field can be specified
 * which links to full text. Licenses can be easily compared using their digests.
 */
public class License implements ILicense {
    /**
     * The body contains the descriptive text for the license. This may
     * be a summary for a full license specified in a URL.
     */
    private final String body;

    /**
     * The location is the URL of the license.
     */
    private URI location;

    /**
     * The digest is the cached message digest of the normalized body
     */
    private String digest;

    /**
     * Creates a new license object which is identified by users using the body field.
     * The body should contain either the full text of the license or an summary for a license
     * fully specified in the given location.
     */
}

```

```

* @param location the location of a document containing the full license, or <code>null</code>
* @param body the license body, cannot be <code>null</code>
* @throws IllegalArgumentException when the <code>body</code> is <code>null</code>
*/
public License(URI location, String body, String uuid) {
    if (body == null)
        throw new IllegalArgumentException("body cannot be null"); //$NON-NLS-1$
    this.body = body;
    this.location = location;
    this.digest = uuid;
}

/**
 * Returns the location of a document containing the full license.
 *
 * @return the location of the license document, or <code>null</code>
 */
public URI getLocation() {
    return location;
}

/**
 * Returns the license body.
 * @return the license body, never <code>null</code>
 */
public String getBody() {
    return body;
}

/**
 * Returns the message digest of the license body. The digest is calculated on a normalized
 * version of the license where all whitespace has been reduced to one space.
 * @return the message digest as a <code>BigInteger</code>, never <code>null</code>
 */
public synchronized String getUUID() {
    if (digest == null)
        digest = calculateLicenseDigest().toString(16);

    return digest;
}

/* (non-Javadoc)
 * @see java.lang.Object#equals(java.lang.Object)
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (obj == null)

```

```

return false;
if (obj instanceof ILicense) {
    ILicense other = (ILicense) obj;
    if (other.getUUID().equals(getUUID()))
        return true;
    }
return false;
}

/* (non-Javadoc)
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return getUUID().hashCode();
}

private BigInteger calculateLicenseDigest() {
    String message = normalize(getBody());
    try {
        MessageDigest algorithm = MessageDigest.getInstance("MD5"); //$NON-NLS-1$
        algorithm.reset();
        algorithm.update(message.getBytes("UTF-8")); //$NON-NLS-1$
        byte[] digestBytes = algorithm.digest();
        return new BigInteger(1, digestBytes);
    } catch (NoSuchAlgorithmException e) {
        throw new RuntimeException(e);
    } catch (UnsupportedEncodingException e) {
        throw new RuntimeException(e);
    }
}

/**
 * Replace all sequences of whitespace with a single whitespace character.
 */
private String normalize(String license) {
    String text = license.trim();
    StringBuffer result = new StringBuffer();
    int length = text.length();
    for (int i = 0; i < length; i++) {
        char c = text.charAt(i);
        boolean foundWhitespace = false;
        while (Character.isWhitespace(c) && i < length) {
            foundWhitespace = true;
            c = text.charAt(++i);
        }
        if (foundWhitespace)
            result.append(' ');
        if (i < length)

```

```

    result.append(c);
}
return result.toString();
}
}
/*****
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* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.equinox.internal.p2.metadata;

import java.net.URI;
import org.eclipse.equinox.p2.metadata.ICopyright;

/**
 * The <code>Copyright</code> class represents a software copyright. A copyright has
 * required body text which may be the full text or a summary. An optional location field can be specified
 * which links to full text.
 */
public class Copyright implements ICopyright {
    /**
     * The <code>body</code> contains the descriptive text for the copyright. This may
     * be a summary for a copyright specified in a URL.
     */
    private final String body;

    /**
     * The <code>location</code> is the location of a document containing a copyright notice.
     */
    private URI location;

    /**
     * Creates a new copyright. The body must contain the full text of the copyright.
     *
     * @param location the location of a document containing the copyright notice, or <code>null</code>
     * @param body the copyright body, cannot be <code>null</code>
     * @throws IllegalArgumentException when the <code>body</code> is <code>null</code>
     */
    public Copyright(URI location, String body) {
        if (body == null)
            throw new IllegalArgumentException("body cannot be null"); //$NON-NLS-1$
        this.location = location;

```

```

    this.body = body;
}

/**
 * Returns the location of a document containing the copyright notice.
 *
 * @return The location of the copyright notice, or <code>null</code>
 */
public URI getLocation() {
    return location;
}

/**
 * Returns the license body.
 *
 * @return the license body, never <code>null</code>
 */
public String getBody() {
    return body;
}
}

/*****
 * Copyright (c) 2008, 2010 EclipseSource and others. All rights reserved. This
 * program and the accompanying materials are made available under the terms of
 * the Eclipse Public License v1.0 which accompanies this distribution, and is
 * available at http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   EclipseSource - initial API and implementation
 *   IBM - ongoing development
 *****/
package org.eclipse.equinox.p2.metadata;

import java.net.URI;

/**
 * The <code>ILicense</code> interface represents a software license. A license has required body text
 * which may be the full text or an annotation. An optional URL field can be specified
 * which links to full text. Licenses can be easily compared using their digests.
 *
 * @noimplement This interface is not intended to be implemented by clients.
 * @noextend This interface is not intended to be extended by clients.
 * @since 2.0
 */
public interface ILicense {

    /**
     * Returns the location of a document containing the full license.

```

```

*
* @return the location of the license document, or <code>null</code>
*/
public URI getLocation();

/**
* Returns the license body.
* @return the license body, never <code>null</code>
*/
public String getBody();

/**
* Returns the message digest of the license body. The digest is calculated on a normalized
* version of the license where all whitespace has been reduced to one space.
*
* @return the message digest as a <code>BigInteger</code>, never <code>null</code>
*/
public String getUUID();

/**
* Returns whether this license is equal to the given object.
*
* This method returns <i>true</i> if:
* <ul>
* <li> Both this object and the given object are of type ILicense
* <li> The result of <b>getDigest()</b> on both objects are equal
* </ul>
*/
public boolean equals(Object obj);

}
/*****
* Copyright (c) 2009, 2010 Cloudsmith Inc. and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   Cloudsmith Inc. - initial API and implementation
*****/
package org.eclipse.equinox.internal.p2.metadata.expression;

import java.util.Iterator;
import java.util.NoSuchElementException;
import org.eclipse.equinox.internal.p2.core.helpers.CollectionUtils;
import org.eclipse.equinox.p2.metadata.expression.IEvaluationContext;

```



```

/**
 * A collection filter that limits the number of entries in the collection
 */
final class Limit extends Binary {

    /**
     * An iterator that stops iterating after a given number of iterations.
     */
    static final class CountingIterator<T> implements Iterator<T> {
        private final Iterator<? extends T> innerIterator;
        private int counter;

        public CountingIterator(Iterator<? extends T> iterator, int count) {
            this.innerIterator = iterator;
            this.counter = count;
        }

        public boolean hasNext() {
            return counter > 0 && innerIterator.hasNext();
        }

        public T next() {
            if (counter > 0) {
                --counter;
                return innerIterator.next();
            }
            throw new NoSuchElementException();
        }

        public void remove() {
            innerIterator.remove();
        }
    }

    Limit(Expression operand, Expression param) {
        super(operand, param);
    }

    Limit(Expression operand, int limit) {
        this(operand, (Expression) ExpressionFactory.INSTANCE.constant(new Integer(limit)));
    }

    public Object evaluate(IEvaluationContext context) {
        return evaluateAsIterator(context);
    }

    public Iterator<?> evaluateAsIterator(IEvaluationContext context) {
        Object rval = rhs.evaluate(context);

```

```

int limit = -1;
if (rval instanceof Integer)
    limit = ((Integer) rval).intValue();
if (limit < 0)
    throw new IllegalArgumentException("limit expression did not evaluate to a positive integer"); //$NON-NLS-1$
return limit == 0 ? CollectionUtils.emptySet().iterator() : new
CountingIterator<Object>(lhs.evaluateAsIterator(context), limit);
}

public int getExpressionType() {
return TYPE_LIMIT;
}

public void toString(StringBuffer bld, Variable rootVariable) {
CollectionFilter.appendProlog(bld, rootVariable, lhs, getOperator());
appendOperand(bld, rootVariable, rhs, IExpressionConstants.PRIORITY_COMMA);
bld.append('');
}

public String getOperator() {
return KEYWORD_LIMIT;
}

public int getPriority() {
return PRIORITY_COLLECTION;
}
}
}
/*****
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* program and the accompanying materials are made available under the terms of
* the Eclipse Public License v1.0 which accompanies this distribution, and is
* available at http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* EclipseSource - initial API and implementation
*****/
package org.eclipse.equinox.p2.metadata;

import java.net.URI;

/**
* The ICopyright interface represents a software copyright. A copyright has
* required body text which may be the full text or a summary. An optional location field can be specified
* which links to full text.
*
* @noimplement This interface is not intended to be implemented by clients.
* @noextend This interface is not intended to be extended by clients.
* @since 2.0

```

```

*/
public interface ICopyright {

/**
 * Returns the location of a document containing the copyright notice.
 *
 * @return The location of the copyright notice, or <code>null</code>
 */
public URI getLocation();

/**
 * Returns the license body.
 *
 * @return the license body, never <code>null</code>
 */
public String getBody();

}
/*****
 * Copyright (c) 2009, 2010 Cloudsmith Inc. and others.
 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   Cloudsmith Inc. - initial API and implementation
 *****/
package org.eclipse.equinox.p2.metadata.expression;

import java.io.Serializable;

/**
 * A simple compiled pattern. It supports two kinds of wildcards. The '*' (any character zero to many times)
 * and the '?' (any character exactly one time).
 * @since 2.0
 */
public class SimplePattern implements Serializable, Comparable<SimplePattern> {
    private static final long serialVersionUID = -2477990705739062410L;

/**
 * Matches the <code>value</code> with the compiled expression. The value
 * is considered matching if all characters are matched by the expression. A
 * partial match is not enough.
 * @param value The value to match
 * @return <code>true</code> if the value was a match.
 */
public boolean isMatch(CharSequence value) {

```

```

if (node == null)
    node = parse(pattern, 0);
return node.match(value, 0);
}

public String toString() {
    return pattern;
}

public int compareTo(SimplePattern o) {
    return pattern.compareTo(o.pattern);
}

public boolean equals(Object o) {
    return o == this || (o instanceof SimplePattern && ((SimplePattern) o).pattern.equals(pattern));
}

public int hashCode() {
    return 3 * pattern.hashCode();
}

private final String pattern;
private transient Node node;

private SimplePattern(String pattern) {
    this.pattern = pattern;
}

static class AllNode extends Node {
    boolean match(CharSequence value, int pos) {
        return true;
    }
}

static class RubberBandNode extends Node {
    final Node next;

    RubberBandNode(Node next) {
        this.next = next;
    }

    boolean match(CharSequence value, int pos) {
        int top = value.length();
        String ending = next.getEndingConstant();
        if (ending != null) {
            // value must end with this constant. It will be faster
            // to scan backwards from the end.
            int clen = ending.length();

```

```

    if (clen > top - pos)
        return false;
    while (clen > 0)
        if (ending.charAt(--clen) != value.charAt(--top))
            return false;
    return true;
}

while (pos < top) {
    if (next.match(value, pos++))
        return true;
}
return false;
}
}

static class AnyCharacterNode extends Node {
    final Node next;

    AnyCharacterNode(Node next) {
        this.next = next;
    }

    boolean match(CharSequence value, int pos) {
        int top = value.length();
        return next == null ? pos + 1 == top : next.match(value, pos + 1);
    }
}

static class EndConstantNode extends Node {
    final String constant;

    EndConstantNode(String constant) {
        this.constant = constant;
    }

    boolean match(CharSequence value, int pos) {
        int max = constant.length() + pos;
        int top = value.length();
        if (top != max)
            return false;

        int idx = 0;
        while (pos < max)
            if (value.charAt(pos++) != constant.charAt(idx++))
                return false;
        return true;
    }
}

```

```

String getEndingConstant() {
    return constant;
}
}

static class ConstantNode extends Node {
    final Node next;
    final String constant;

    ConstantNode(Node next, String constant) {
        this.next = next;
        this.constant = constant;
    }

    boolean match(CharSequence value, int pos) {
        int max = constant.length() + pos;
        int top = value.length();
        if (top < max)
            return false;

        int idx = 0;
        while (pos < max)
            if (value.charAt(pos++) != constant.charAt(idx++))
                return false;
        return next == null ? (pos == top) : next.match(value, pos);
    }
}

static abstract class Node {
    abstract boolean match(CharSequence value, int pos);

    String getEndingConstant() {
        return null;
    }
}

public static SimplePattern compile(String pattern) {
    if (pattern == null)
        throw new IllegalArgumentException("Pattern can not be null"); //$NON-NLS-1$
    return new SimplePattern(pattern);
}

private static Node parse(String pattern, int pos) {
    int top = pattern.length();
    StringBuffer bld = null;
    Node parsedNode = null;
    while (pos < top) {

```

```

char c = pattern.charAt(pos);
switch (c) {
case '*':
    ++pos;
    parsedNode = pos == top ? new AllNode() : new RubberBandNode(parse(pattern, pos));
    break;
case '?':
    parsedNode = new AnyCharacterNode(parse(pattern, pos + 1));
    break;
case '\\':
    if (++pos == top)
        throw new IllegalArgumentException("Pattern ends with escape"); //$NON-NLS-1$
    c = pattern.charAt(pos);
    // fall through
default :
    if (bld == null)
        bld = new StringBuffer();
    bld.append(c);
    ++pos;
    continue;
}
break;
}

if (bld != null) {
    String constant = bld.toString();
    parsedNode = parsedNode == null ? new EndConstantNode(constant) : new ConstantNode(parsedNode, constant);
}
return parsedNode;
}
}

```

1.538

org.eclipse.equinox.p2.metadata.repository

1.2.0.v20110511-1359

1.538.1 Available under license :

/*

*/

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- * are made available under the terms of the Eclipse Public License v1.0
- * which accompanies this distribution, and is available at
- * <http://www.eclipse.org/legal/epl-v10.html>
- *
- * Contributors:

```

*   IBM Corporation - initial API and implementation
*   Sonatype Inc - ongoing development
*****/
package org.eclipse.equinox.internal.p2.metadata.repository;

import org.eclipse.equinox.internal.p2.repository.CacheManager;

import java.io.*;
import java.net.URI;
import java.util.Map;
import java.util.jar.JarEntry;
import java.util.jar.JarInputStream;
import org.eclipse.core.runtime.*;
import org.eclipse.equinox.internal.p2.core.helpers.Tracing;
import org.eclipse.equinox.p2.core.ProvisionException;
import org.eclipse.equinox.p2.repository.IRepositoryManager;
import org.eclipse.equinox.p2.repository.metadata.IMetadataRepository;
import org.eclipse.equinox.p2.repository.metadata.spi.MetadataRepositoryFactory;
import org.eclipse.osgi.util.NLS;

public class SimpleMetadataRepositoryFactory extends MetadataRepositoryFactory {

    private static final String JAR_EXTENSION = ".jar"; //$NON-NLS-1$
    private static final String XML_EXTENSION = ".xml"; //$NON-NLS-1$
    private static final String PROTOCOL_FILE = "file"; //$NON-NLS-1$

    public IMetadataRepository create(URI location, String name, String type, Map<String, String> properties) {
        if (location.getScheme().equals("file")) //$NON-NLS-1$
            return new LocalMetadataRepository(getAgent(), location, name, properties);
        return new URLMetadataRepository(getAgent(), location, name, properties);
    }

    /**
     * Returns a file in the local file system that contains the contents of the
     * metadata repository at the given location.
     */
    private File getLocalFile(URI location, IProgressMonitor monitor) throws IOException, ProvisionException {
        File localFile = null;
        URI jarLocation = URLMetadataRepository.getActualLocation(location, JAR_EXTENSION);
        URI xmlLocation = URLMetadataRepository.getActualLocation(location, XML_EXTENSION);
        // If the repository is local, we can return the repository file directly
        if (PROTOCOL_FILE.equals(xmlLocation.getScheme())) {
            //look for a compressed local file
            localFile = URIUtilToFile(jarLocation);
            if (localFile.exists())
                return localFile;
            //look for an uncompressed local file
            localFile = URIUtilToFile(xmlLocation);
        }
    }
}

```



```

    if (localFile.exists())
        return localFile;
    String msg = NLS.bind(Messages.io_failedRead, location);
    throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID,
ProvisionException.REPOSITORY_NOT_FOUND, msg, null));
}
// file is not local, create a cache of the repository metadata
CacheManager cache = (CacheManager) getAgent().getService(CacheManager.SERVICE_NAME);
if (cache == null)
    throw new IllegalArgumentException("Cache manager service not available"); //$NON-NLS-1$
localFile = cache.createCache(location, URLMetadataRepository.CONTENT_FILENAME, monitor);
if (localFile == null) {
    // there is no remote file in either form - this should not really happen as
    // createCache should bail out with exception if something is wrong. This is an internal
    // error.
    throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID,
ProvisionException.REPOSITORY_NOT_FOUND, Messages.repoMan_internalError, null));
}
return localFile;
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.p2.repository.metadata.spi.MetadataRepositoryFactory#load(java.net.URL,
org.eclipse.core.runtime.IProgressMonitor)
 */
public IMetadataRepository load(URL location, int flags, IProgressMonitor monitor) throws ProvisionException {
    long time = 0;
    final String debugMsg = "Validating and loading metadata repository "; //$NON-NLS-1$
    if (Tracing.DEBUG_METADATA_PARSING) {
        Tracing.debug(debugMsg + location);
        time = -System.currentTimeMillis();
    }
    SubMonitor sub = SubMonitor.convert(monitor, 400);
    try {
        File localFile = getLocalFile(location, sub.newChild(300));
        InputStream inStream = new BufferedInputStream(new FileInputStream(localFile));
        JarInputStream jarStream = null;
        try {
            //if reading from a jar, obtain a stream on the entry with the actual contents
            if (localFile.getAbsolutePath().endsWith(JAR_EXTENSION)) {
                jarStream = new JarInputStream(inStream);
                JarEntry jarEntry = jarStream.getNextJarEntry();
                String entryName = URLMetadataRepository.CONTENT_FILENAME +
URLMetadataRepository.XML_EXTENSION;
                while (jarEntry != null && (!entryName.equals(jarEntry.getName()))) {
                    jarEntry = jarStream.getNextJarEntry();
                }
            }
            //if there is a jar but the entry is missing or invalid, treat this as an invalid repository

```

```

    if (jarEntry == null)
        throw new IOException(NLS.bind(Messages.repoMan_invalidLocation, location));
    }
    //parse the repository descriptor file
    sub.setWorkRemaining(100);
    InputStream descriptorStream = jarStream != null ? jarStream : inStream;
    IMetadataRepository result = new MetadataRepositoryIO(getAgent()).read(localFile.toURL(), descriptorStream,
sub.newChild(100));
    if (result != null && (flags & IRepositoryManager.REPOSITORY_HINT_MODIFIABLE) > 0 &&
!result.isModifiable())
        return null;
    if (result instanceof LocalMetadataRepository)
        ((LocalMetadataRepository) result).initializeAfterLoad(location);
    if (result instanceof URLMetadataRepository)
        ((URLMetadataRepository) result).initializeAfterLoad(location);
    if (Tracing.DEBUG_METADATA_PARSING) {
        time += System.currentTimeMillis();
        Tracing.debug(debugMsg + "time (ms): " + time); //$NON-NLS-1$
    }
    return result;
} finally {
    safeClose(jarStream);
    safeClose(inStream);
}
} catch (FileNotFoundException e) {
    String msg = NLS.bind(Messages.io_failedRead, location);
    throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID,
ProvisionException.REPOSITORY_NOT_FOUND, msg, e));
} catch (IOException e) {
    String msg = NLS.bind(Messages.io_failedRead, location);
    throw new ProvisionException(new Status(IStatus.ERROR, Activator.ID,
ProvisionException.REPOSITORY_FAILED_READ, msg, e));
} finally {
    if (monitor != null)
        monitor.done();
}
}

/**
 * Closes a stream, ignoring any secondary exceptions
 */
private void safeClose(InputStream stream) {
    if (stream == null)
        return;
    try {
        stream.close();
    } catch (IOException e) {
        //ignore

```

```
}  
}  
}
```

1.539 org.eclipse.equinox.p2.publisher

1.2.0.v20110511

1.539.1 Available under license :

```
/*  
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 * program and the accompanying materials are made available under the terms of  
 * the Eclipse Public License v1.0 which accompanies this distribution, and is  
 * available at http://www.eclipse.org/legal/epl-v10.html  
 *  
 * Contributors:  
 * EclipseSource - initial API and implementation  
 */  
package org.eclipse.equinox.p2.publisher.actions;  
  
import org.eclipse.equinox.p2.publisher.IPublisherAdvice;  
  
/**  
 * Provides advice about a license.  
 */  
public interface ILicenseAdvice extends IPublisherAdvice {  
  
    public String getLicenseURL();  
  
    public String getLicenseText();  
  
}  
/*  
 * Copyright (c) 2007, 2010 IBM Corporation and others.  
 * All rights reserved. This program and the accompanying materials  
 * are made available under the terms of the Eclipse Public License v1.0  
 * which accompanies this distribution, and is available at  
 * http://www.eclipse.org/legal/epl-v10.html  
 *  
 * Contributors:  
 * IBM Corporation - initial API and implementation  
 * EclipseSource - ongoing development  
 */  
package org.eclipse.equinox.p2.publisher;  
  
import java.io.File;  
import java.net.URI;
```

```

import java.net.URISyntaxException;
import java.util.ArrayList;
import java.util.List;
import org.eclipse.core.runtime.*;
import org.eclipse.equinox.app.IApplication;
import org.eclipse.equinox.app.IApplicationContext;
import org.eclipse.equinox.internal.p2.artifact.repository.CompositeArtifactRepository;
import org.eclipse.equinox.internal.p2.metadata.repository.CompositeMetadataRepository;
import org.eclipse.equinox.internal.p2.publisher.Activator;
import org.eclipse.equinox.internal.p2.publisher.Messages;
import org.eclipse.equinox.p2.core.*;
import org.eclipse.equinox.p2.metadata.IArtifactKey;
import org.eclipse.equinox.p2.query.IQueryResult;
import org.eclipse.equinox.p2.query.QueryUtil;
import org.eclipse.equinox.p2.repository.artifact.ArtifactKeyQuery;
import org.eclipse.equinox.p2.repository.artifact.IArtifactRepository;
import org.eclipse.osgi.util.NLS;
import org.osgi.framework.ServiceReference;

public abstract class AbstractPublisherApplication implements IApplication {

    // The mapping rules for in-place generation need to construct paths into the structure
    // of an eclipse installation; in the future the default artifact mapping declared in
    // SimpleArtifactRepository may change, for example, to not have a 'bundles' directory
    // instead of a 'plugins' directory, so a separate constant is defined and used here.
    static final protected String[][] INPLACE_MAPPING_RULES = { {"(& (classifier=osgi.bundle) (format=packed)",
"$repoUrl}/features/${id}_${version}.jar.pack.gz" }, //NON-NLS-1$//NON-NLS-2$
    {"(& (classifier=osgi.bundle))", "${repoUrl}/plugins/${id}_${version}.jar" }, //NON-NLS-1$//NON-NLS-2$
    {"(& (classifier=binary))", "${repoUrl}/binary/${id}_${version}" }, //NON-NLS-1$//NON-NLS-2$
    {"(& (classifier=org.eclipse.update.feature))", "${repoUrl}/features/${id}_${version}.jar" } }; //NON-NLS-1$//NON-NLS-2$

    static final public String PUBLISH_PACK_FILES_AS_SIBLINGS = "publishPackFilesAsSiblings"; //NON-NLS-1$

    protected PublisherInfo info;
    protected String source;
    protected URI metadataLocation;
    protected String metadataRepoName;
    protected URI artifactLocation;
    protected String artifactRepoName;
    protected URI[] contextMetadataRepositories;
    protected URI[] contextArtifactRepositories;
    //whether repository xml files should be compressed
    protected boolean compress = false;
    protected boolean inplace = false;
    protected boolean append = false;
    protected boolean reusePackedFiles = false;

```

```

protected String[] configurations;
private IStatus status;

private ServiceReference<IProvisioningAgent> agentRef;

protected IProvisioningAgent agent;

/**
 * Returns the error message for this application, or the empty string
 * if the application terminated successfully.
 */
public IStatus getStatus() {
    return status;
}

protected void initialize(PublisherInfo publisherInfo) throws ProvisionException {
    if (inplace) {
        File location = new File(source);
        if (metadataLocation == null)
            metadataLocation = location.toURI();
        if (artifactLocation == null)
            artifactLocation = location.toURI();
        publisherInfo.setArtifactOptions(publisherInfo.getArtifactOptions() | IPublisherInfo.A_INDEX |
IPublisherInfo.A_PUBLISH);
    }
    initializeRepositories(publisherInfo);
}

protected IStatus createConfigurationError(String message) {
    return new Status(IStatus.ERROR, "org.eclipse.equinox.p2.publisher", message); //$NON-NLS-1$
}

private boolean isEmpty(IArtifactRepository repo) {
    IQueryResult<IArtifactKey> result = repo.query(QueryUtil.createLimitQuery(ArtifactKeyQuery.ALL_KEYS, 1),
null);
    return result.isEmpty();
}

protected void initializeRepositories(PublisherInfo publisherInfo) throws ProvisionException {
    if (artifactLocation != null) {
        IArtifactRepository repo = Publisher.createArtifactRepository(agent, artifactLocation, artifactRepoName, compress,
reusePackedFiles);
        if (!append && !isEmpty(repo)) {
            File repoLocation = URIUtil.toFile(artifactLocation);
            if (repoLocation != null && source != null) {
                if (repoLocation.isFile())
                    repoLocation = repoLocation.getParentFile();
                if (repoLocation.equals(new File(source)))

```

```

        throw new IllegalArgumentException(NLS.bind(Messages.exception_artifactRepoNoAppendDestroysInput,
URIUtil.toUnencodedString(artifactLocation)));
    }
    repo.removeAll();
}
publisherInfo.setArtifactRepository(repo);
} else if ((publisherInfo.getArtifactOptions() & IPublisherInfo.A_PUBLISH) > 0)
    throw new ProvisionException(createConfigurationError(Messages.exception_noArtifactRepo));
if (metadataLocation == null)
    throw new ProvisionException(createConfigurationError(Messages.exception_noMetadataRepo));
publisherInfo.setMetadataRepository(Publisher.createMetadataRepository(agent, metadataLocation,
metadataRepoName, append, compress));

if (contextMetadataRepositories != null && contextMetadataRepositories.length > 0) {
    CompositeMetadataRepository contextMetadata = CompositeMetadataRepository.createMemoryComposite(agent);
    if (contextMetadata != null) {
        for (int i = 0; i < contextMetadataRepositories.length; i++)
            contextMetadata.addChild(contextMetadataRepositories[i]);
        if (contextMetadata.getChildren().size() > 0)
            publisherInfo.setContextMetadataRepository(contextMetadata);
    }
}
if (contextArtifactRepositories != null && contextArtifactRepositories.length > 0) {
    CompositeArtifactRepository contextArtifact = CompositeArtifactRepository.createMemoryComposite(agent);
    if (contextArtifact != null) {
        for (int i = 0; i < contextArtifactRepositories.length; i++)
            contextArtifact.addChild(contextArtifactRepositories[i]);

        if (contextArtifact.getChildren().size() > 0)
            publisherInfo.setContextArtifactRepository(contextArtifact);
    }
}

protected void processCommandLineArguments(String[] args, PublisherInfo publisherInfo) throws Exception {
    if (args == null)
        return;
    for (int i = 0; i < args.length; i++) {
        // check for args without parameters (i.e., a flag arg)
        processFlag(args[i], publisherInfo);

        // check for args with parameters. If we are at the last argument or if the next one
        // has a '-' as the first character, then we can't have an arg with a parm so continue.
        if (i == args.length - 1 || args[i + 1].startsWith("-")) //$NON-NLS-1$
            continue;
        processParameter(args[i], args[++i], publisherInfo);
    }
}

```

```

@SuppressWarnings("unused")
protected void processParameter(String arg, String parameter, PublisherInfo publisherInfo) throws
URISyntaxException {
    try {
        if (arg.equalsIgnoreCase("-metadataRepository") || arg.equalsIgnoreCase("-mr")) //$NON-NLS-1$ //$NON-NLS-2$
            metadataLocation = URIUtil.fromString(parameter);

        if (arg.equalsIgnoreCase("-artifactRepository") || arg.equalsIgnoreCase("-ar")) //$NON-NLS-1$ //$NON-NLS-2$
            artifactLocation = URIUtil.fromString(parameter);
    } catch (URISyntaxException e) {
        throw new IllegalArgumentException(NLS.bind(Messages.exception_repoMustBeURL, parameter));
    }

    if (arg.equalsIgnoreCase("-metadataRepositoryName")) //$NON-NLS-1$
        metadataRepoName = parameter;

    if (arg.equalsIgnoreCase("-source")) { //$NON-NLS-1$
        // check here to see if the location actually exists so we can fail gracefully now rather than unpredictably later
        // see bug 272956 where we would fail with an NPE if someone gave us a URL instead of a file-system path
        if (!new File(parameter).exists())
            throw new IllegalArgumentException(NLS.bind(Messages.exception_sourcePath, parameter));
        source = parameter;
    }

    if (arg.equalsIgnoreCase("-artifactRepositoryName")) //$NON-NLS-1$
        artifactRepoName = parameter;

    if (arg.equalsIgnoreCase("-configs")) //$NON-NLS-1$
        publisherInfo.setConfigurations(AbstractPublisherAction.getArrayFromString(parameter, ",")); //$NON-NLS-1$

    if (arg.equalsIgnoreCase("-contextMetadata")) //$NON-NLS-1$
        setContextRepositories(processRepositoryList(parameter), contextArtifactRepositories);

    if (arg.equalsIgnoreCase("-contextArtifacts")) //$NON-NLS-1$
        setContextRepositories(contextMetadataRepositories, processRepositoryList(parameter));
    }

    private URI[] processRepositoryList(String parameter) {
        String[] list = AbstractPublisherAction.getArrayFromString(parameter, ","); //$NON-NLS-1$
        if (list == null || list.length == 0)
            return null;

        List<URI> result = new ArrayList<URI>(list.length);
        if (result != null) {
            for (int i = 0; i < list.length; i++) {
                try {
                    result.add(URIUtil.fromString(list[i]));
                }
            }
        }
    }

```

```

    } catch (URISyntaxException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
}
return result.toArray(new URI[result.size()]);
}

protected void processFlag(String arg, PublisherInfo publisherInfo) {
    if (arg.equalsIgnoreCase("-publishArtifacts") || arg.equalsIgnoreCase("-pa")) //$NON-NLS-1$ //$NON-NLS-2$
        publisherInfo.setArtifactOptions(publisherInfo.getArtifactOptions() | IPublisherInfo.A_PUBLISH);

    if (arg.equalsIgnoreCase("-publishArtifactRepository") || arg.equalsIgnoreCase("-par")) //$NON-NLS-1$ //$NON-NLS-2$
        publisherInfo.setArtifactOptions(publisherInfo.getArtifactOptions() | IPublisherInfo.A_INDEX);

    if (arg.equalsIgnoreCase("-overwriteArtifacts")) //$NON-NLS-1$
        publisherInfo.setArtifactOptions(publisherInfo.getArtifactOptions() | IPublisherInfo.A_OVERWRITE);

    if (arg.equalsIgnoreCase("-append")) //$NON-NLS-1$
        append = true;

    if (arg.equalsIgnoreCase("-compress")) //$NON-NLS-1$
        compress = true;

    if (arg.equalsIgnoreCase("-reusePack200Files")) //$NON-NLS-1$
        reusePackedFiles = true;

    if (arg.equalsIgnoreCase("-inplace")) //$NON-NLS-1$
        inplace = true;
}

private void setupAgent() throws ProvisionException {
    agentRef = Activator.getContext().getServiceReference(IProvisioningAgent.class);
    if (agentRef != null) {
        agent = Activator.getContext().getService(agentRef);
        if (agent != null)
            return;
    }
    ServiceReference<IProvisioningAgentProvider> providerRef =
Activator.getContext().getServiceReference(IProvisioningAgentProvider.class);
    if (providerRef == null)
        throw new RuntimeException("No provisioning agent provider is available"); //$NON-NLS-1$
    IProvisioningAgentProvider provider = Activator.getContext().getService(providerRef);
    if (provider == null)
        throw new RuntimeException("No provisioning agent provider is available"); //$NON-NLS-1$
    //obtain agent for currently running system

```



```

agent = provider.createAgent(null);
Activator.getContext().ungetService(providerRef);
}

public Object run(String args[]) throws Exception {
    try {
        info = createPublisherInfo();
        processCommandLineArguments(args, info);
        Object result = run(info);
        if (result != IApplication.EXIT_OK) {
            System.out.println(NLS.bind(Messages.message_publisherArguments, null));
            for (int i = 0; i < args.length; i++)
                System.out.println(args[i]);
        }
        return result;
    } catch (Exception e) {
        if (e.getMessage() != null)
            System.err.println(e.getMessage());
        else
            e.printStackTrace(System.err);
        throw e;
    }
}

protected PublisherInfo createPublisherInfo() {
    return new PublisherInfo();
}

public Object run(PublisherInfo publisherInfo) throws Exception {
    try {
        this.info = publisherInfo;
        setupAgent();
        initialize(publisherInfo);
        System.out.println(NLS.bind(Messages.message_generatingMetadata, publisherInfo.getSummary()));

        long before = System.currentTimeMillis();
        IPublisherAction[] actions = createAction();
        Publisher publisher = createPublisher(publisherInfo);
        IStatus result = publisher.publish(actions, new NullProgressMonitor());
        long after = System.currentTimeMillis();

        if (result.isOK()) {
            System.out.println(NLS.bind(Messages.message_generationCompleted, String.valueOf((after - before) / 1000)));
            return IApplication.EXIT_OK;
        }
        // TODO: improve the string representation of the result
        System.out.println(result);
        Throwable th = result.getException();

```

```

if (th != null) {
    System.out.println();
    System.out.println(NLS.bind(Messages.message_resultException, null));
    th.printStackTrace(System.out);
    System.out.println();
}
} catch (ProvisionException e) {
    status = e.getStatus();
    if (status.getSeverity() == IStatus.ERROR && status.getMessage() != null) {
        System.out.println(status.getMessage());
    }
}
return new Integer(1);
}

protected abstract IPublisherAction[] createActions();

protected Publisher createPublisher(PublisherInfo publisherInfo) {
    return new Publisher(publisherInfo);
}

public Object start(IApplicationContext context) throws Exception {
    return run((String[]) context.getArguments().get("application.args")); //$NON-NLS-1$
}

public void stop() {
    if (agentRef != null) {
        Activator.getContext().ungetService(agentRef);
        agentRef = null;
    }
}

public void setArtifactLocation(URI location) {
    this.artifactLocation = location;
}

public void setMetadataLocation(URI location) {
    this.metadataLocation = location;
}

public boolean reuseExistingPack200Files() {
    return reusePackedFiles;
}

public void setReuseExistingPackedFiles(boolean value) {
    reusePackedFiles = value;
}

```

```
public void setCompress(boolean value) {
    compress = value;
}

public void setContextRepositories(URI[] metadata, URI[] artifacts) {
    this.contextMetadataRepositories = metadata;
    this.contextArtifactRepositories = artifacts;
}
}
```

1.540 org.eclipse.equinox.p2.repository

2.1.0.v20110601

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```

* This service checks that all Group IUs have a copyright.
*/
public class CopyrightAnalyzer extends IUAnalyzer {

    public void analyzeIU(IInstallableUnit iu) {
        if (Boolean.valueOf(iu.getProperty(InstallableUnitDescription.PROP_TYPE_GROUP)).booleanValue()) {
            if (iu.getCopyright() == null || iu.getCopyright().getBody().length() == 0) {
                // If there is no copyright at all, this is an error
                error(iu, "[ERROR] " + iu.getId() + " has no copyright");
                return;
            }
            if (iu.getCopyright() != null && iu.getCopyright().getBody().startsWith("%")) {
                // If there is a copyright, but it starts with %, then check the default
                // language for a copyright
                String copyrightProperty = iu.getCopyright().getBody().substring(1);
                if (iu.getProperty("df_LT." + copyrightProperty) == null)
                    error(iu, "[ERROR] " + iu.getId() + " has no copyright");
            }
        }
    }

    public void preAnalysis(IMetadataRepository repository) {
        // do nothing
    }

}

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* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.equinox.p2.internal.repository.tools.tasks;

import java.util.Map;
import java.util.StringTokenizer;
import org.apache.tools.ant.BuildException;
import org.apache.tools.ant.Task;
import org.eclipse.equinox.p2.internal.repository.tools.Messages;
import org.eclipse.equinox.p2.internal.repository.tools.SlicingOptions;
import org.eclipse.osgi.util.NLS;

public class SlicingOption extends Task {

```

```

SlicingOptions options = null;

public SlicingOption() {
    options = new SlicingOptions();
    options.forceFilterTo(true);
    options.considerStrictDependencyOnly(false);
    options.everythingGreedy(true);
    options.includeOptionalDependencies(true);
    options.followOnlyFilteredRequirements(false);
    options.installTimeLikeResolution(false);
    setIncludeFeatures(true);
}

/**
 * Setting this to true will cause the optional dependencies to be considered.
 */
public void setIncludeOptional(boolean optional) {
    options.includeOptionalDependencies(optional);
}

/**
 *
 */
public void setPlatformFilter(String platformFilter) {
    if (platformFilter == null || platformFilter.trim().equals("")) //$NON-NLS-1$
        return;
    if (platformFilter.equalsIgnoreCase("true")) { //$NON-NLS-1$
        options.forceFilterTo(true);
        return;
    }
    if (platformFilter.equalsIgnoreCase("false")) { //$NON-NLS-1$
        options.forceFilterTo(false);
        return;
    }
    StringTokenizer tok = new StringTokenizer(platformFilter, ","); //$NON-NLS-1$
    if (tok.countTokens() != 3)
        throw new BuildException(NLS.bind(Messages.SlicingOption_invalid_platform, platformFilter));
    Map<String, String> filter = options.getFilter();
    filter.put("osgi.os", tok.nextToken().trim()); //$NON-NLS-1$
    filter.put("osgi.ws", tok.nextToken().trim()); //$NON-NLS-1$
    filter.put("osgi.arch", tok.nextToken().trim()); //$NON-NLS-1$
    options.setFilter(filter);
}

public void setIncludeNonGreedy(boolean greed) {
    options.everythingGreedy(greed);
}

```



```

public void setIncludeFeatures(boolean includeFeatures) {
    Map<String, String> filter = options.getFilter();
    filter.put("org.eclipse.update.install.features", String.valueOf(includeFeatures)); //$NON-NLS-1$
    options.setFilter(filter);
}

public void setFilter(String filterString) {
    if (filterString == null || filterString.trim().equals("")) //$NON-NLS-1$
        return;
    Map<String, String> filter = options.getFilter();
    StringTokenizer tok = new StringTokenizer(filterString, ","); //$NON-NLS-1$
    while (tok.hasMoreTokens()) {
        String rule = tok.nextToken().trim();
        int eqIndex = rule.indexOf('=');
        if (eqIndex == -1)
            throw new BuildException(NLS.bind(Messages.SlicingOption_invalidFilterFormat, rule));
        filter.put(rule.substring(0, eqIndex), rule.substring(eqIndex + 1));
    }
    options.setFilter(filter);
}

/**
 * Set this property to true if only strict dependencies must be followed. A strict dependency is defined by a version
 * range only including one version (e.g. [1.0.0.v2009, 1.0.0.v2009])
 * The default value is false.
 */
public void setFollowStrict(boolean strict) {
    options.considerStrictDependencyOnly(strict);
}

public void setFollowOnlyFilteredRequirements(boolean onlyFiltered) {
    options.followOnlyFilteredRequirements(onlyFiltered);
}

public void setLatestVersionOnly(boolean latest) {
    options.latestVersionOnly(latest);
}

public void setResolve(boolean resolve) {
    options.installTimeLikeResolution(resolve);
}

public SlicingOptions getOptions() {
    return options;
}
}

```

```

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* which accompanies this distribution, and is available at
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*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.equinox.p2.internal.repository.tools;

```

```

import java.io.File;
import java.net.URI;
import java.net.URISyntaxException;
import java.util.*;
import org.eclipse.core.runtime.*;
import org.eclipse.equinox.app.IApplication;
import org.eclipse.equinox.app.IApplicationContext;
import org.eclipse.equinox.internal.p2.core.helpers.LogHelper;
import org.eclipse.equinox.internal.p2.director.PermissiveSlicer;
import org.eclipse.equinox.internal.p2.repository.Transport;
import org.eclipse.equinox.internal.p2.repository.helpers.RepositoryHelper;
import org.eclipse.equinox.p2.core.ProvisionException;
import org.eclipse.equinox.p2.engine.*;
import org.eclipse.equinox.p2.internal.repository.mirroring.*;
import org.eclipse.equinox.p2.metadata.*;
import org.eclipse.equinox.p2.planner.IPlanner;
import org.eclipse.equinox.p2.planner.IProfileChangeRequest;
import org.eclipse.equinox.p2.query.*;
import org.eclipse.equinox.p2.repository.artifact.IArtifactDescriptor;
import org.eclipse.equinox.p2.repository.artifact.IArtifactRepository;
import org.eclipse.equinox.p2.repository.metadata.IMetadataRepository;
import org.eclipse.osgi.util.NLS;

```

```

public class MirrorApplication extends AbstractApplication implements IApplication, IExecutableExtension {
    private static final String LOG_ROOT = "p2.mirror"; //$NON-NLS-1$
    private static final String MIRROR_MODE = "metadataOrArtifacts"; //$NON-NLS-1$

```

```

    protected SlicingOptions slicingOptions = new SlicingOptions();

```

```

    private URI baseline;
    private String comparatorID;
    private IQuery<IArtifactDescriptor> compareExclusions = null;
    private boolean compare = false;
    private boolean failOnError = true;
    private boolean raw = true;
    private boolean verbose = false;

```

```

private boolean validate = false;
private boolean mirrorReferences = false;
private String metadataOrArtifacts = null;
private String[] rootIUs = null;

private File mirrorLogFile; // file to log mirror output to (optional)
private File comparatorLogFile; // file to comparator output to (optional)
private IArtifactMirrorLog mirrorLog;
private IArtifactMirrorLog comparatorLog;

/**
 * Convert a list of tokens into an array. The list separator has to be
 * specified.
 */
public static String[] getArrayArgsFromString(String list, String separator) {
    if (list == null || list.trim().equals("")) //$NON-NLS-1$
        return new String[0];
    List<String> result = new ArrayList<String>();
    for (StringTokenizer tokens = new StringTokenizer(list, separator); tokens.hasMoreTokens(); ) {
        String token = tokens.nextToken().trim();
        if (!token.equals("")) { //$NON-NLS-1$
            if ((token.indexOf('[') >= 0 || token.indexOf('(') >= 0) && tokens.hasMoreTokens())
                result.add(token + separator + tokens.nextToken());
            else
                result.add(token);
        }
    }
    return result.toArray(new String[result.size()]);
}

public Object start(IApplicationContext context) throws Exception {
    Map<?, ?> args = context.getArguments();
    initializeFromArguments((String[]) args.get(IApplicationContext.APPLICATION_ARGS));
    run(null);
    return IApplication.EXIT_OK;
}

public void stop() {
    // TODO Auto-generated method stub
}

/**
 * The old "org.eclipse.equinox.p2.artifact.repository.mirrorApplication" application only does artifacts
 * Similary, "org.eclipse.equinox.p2.metadata.repository.mirrorApplication" only does metadata
 */
public void setInitializationData(IConfigurationElement config, String propertyName, Object data) {
    if (data instanceof Map<?, ?> && ((Map<?, ?>) data).containsKey(MIRROR_MODE)) {

```

```

    metadataOrArtifacts = (String) ((Map<?, ?>) data).get(MIRROR_MODE);
}
}

public void initializeFromArguments(String[] args) throws Exception {
    if (args == null)
        return;

    File comparatorLogLocation = null;
    File mirrorLogLocation = null;

    RepositoryDescriptor destination = new RepositoryDescriptor();
    RepositoryDescriptor sourceRepo = new RepositoryDescriptor();
    if (metadataOrArtifacts != null) {
        destination.setKind(metadataOrArtifacts);
        sourceRepo.setKind(metadataOrArtifacts);
    }

    addDestination(destination);
    addSource(sourceRepo);

    for (int i = 0; i < args.length; i++) {
        // check for args without parameters (i.e., a flag arg)
        if (args[i].equalsIgnoreCase("-raw")) //$NON-NLS-1$
            raw = true;
        else if (args[i].equalsIgnoreCase("-ignoreErrors")) //$NON-NLS-1$
            failOnError = false;
        else if (args[i].equalsIgnoreCase("-verbose")) //$NON-NLS-1$
            verbose = true;
        else if (args[i].equalsIgnoreCase("-compare")) //$NON-NLS-1$
            compare = true;
        else if (args[i].equalsIgnoreCase("-validate")) //$NON-NLS-1$
            validate = true;
        else if (args[i].equalsIgnoreCase("-references")) //$NON-NLS-1$
            mirrorReferences = true;

        // check for args with parameters. If we are at the last argument or
        // if the next one has a '-' as the first character, then we can't have
        // an arg with a param so continue.
        if (i == args.length - 1 || args[i + 1].startsWith("-")) //$NON-NLS-1$
            continue;

        String arg = args[++i];

        if (args[i - 1].equalsIgnoreCase("-comparator")) //$NON-NLS-1$
            comparatorID = arg;
        else if (args[i - 1].equalsIgnoreCase("-comparatorLog")) //$NON-NLS-1$
            comparatorLogLocation = new File(arg);
    }
}

```

```

else if (args[i - 1].equalsIgnoreCase("-destinationName")) //$NON-NLS-1$
    destination.setName(arg);
else if (args[i - 1].equalsIgnoreCase("-writeMode")) { //$NON-NLS-1$
    if (args[i].equalsIgnoreCase("clean")) //$NON-NLS-1$
        destination.setAppend(false);
    } else if (args[i - 1].equalsIgnoreCase("-log")) { //$NON-NLS-1$
        mirrorLogLocation = new File(arg);
    } else if (args[i - 1].equalsIgnoreCase("-roots")) { //$NON-NLS-1$
        rootIUs = getArrayArgsFromString(arg, ","); //$NON-NLS-1$
    } else {
        try {
            if (args[i - 1].equalsIgnoreCase("-source")) { //$NON-NLS-1$
                URI uri = RepositoryHelper.localRepoURIHelper(URIUtil.fromString(arg));
                sourceRepo.setLocation(uri);
                destination.setFormat(uri);
            } else if (args[i - 1].equalsIgnoreCase("-destination")) //$NON-NLS-1$
                destination.setLocation(RepositoryHelper.localRepoURIHelper(URIUtil.fromString(arg)));
            else if (args[i - 1].equalsIgnoreCase("-compareAgainst")) { //$NON-NLS-1$
                baseline = RepositoryHelper.localRepoURIHelper(URIUtil.fromString(arg));
                compare = true;
            }
        } catch (URISyntaxException e) {
            throw new IllegalArgumentException(NLS.bind(Messages.ProcessRepo_location_not_url, arg));
        }
    }
}

// Create logs
if (mirrorLogLocation != null)
    mirrorLog = getLog(mirrorLogLocation, "p2.artifact.mirror"); //$NON-NLS-1$
if (comparatorLogLocation != null && comparatorID != null)
    comparatorLog = getLog(comparatorLogLocation, comparatorID);
}

public IStatus run(IProgressMonitor monitor) throws ProvisionException {
    IStatus mirrorStatus = Status.OK_STATUS;
    try {
        initializeRepos(new NullProgressMonitor());
        initializeLogs();
        validate();
        initializeIUs();
        IQueryableViewable<IInstallableUnit> slice = slice(new NullProgressMonitor());
        if (destinationArtifactRepository != null) {
            mirrorStatus = mirrorArtifacts(slice, new NullProgressMonitor());
            if (failOnError && mirrorStatus.getSeverity() == IStatus.ERROR)
                return mirrorStatus;
        }
        if (destinationMetadataRepository != null)

```

```

    mirrorMetadata(slice, new NullProgressMonitor());
} finally {
    finalizeRepositories();
    finalizeLogs();
}
if (mirrorStatus.isOK())
    return Status.OK_STATUS;
return mirrorStatus;
}

private IStatus mirrorArtifacts(IQueryable<IInstallableUnit> slice, IProgressMonitor monitor) {
    // Obtain ArtifactKeys from IUs
    IQueryResult<IInstallableUnit> ius = slice.query(QueryUtil.createIUAnyQuery(), monitor);
    ArrayList<IArtifactKey> keys = new ArrayList<IArtifactKey>();
    for (Iterator<IInstallableUnit> iterator = ius.iterator(); iterator.hasNext();) {
        IInstallableUnit iu = iterator.next();
        keys.addAll(iu.getArtifacts());
    }

    Mirroring mirror = new Mirroring(getCompositeArtifactRepository(), destinationArtifactRepository, raw);
    mirror.setCompare(compare);
    mirror.setComparatorId(comparatorID);
    mirror.setBaseline(initializeBaseline());
    mirror.setValidate(validate);
    mirror.setCompareExclusions(compareExclusions);
    mirror.setTransport((Transport) agent.getService(Transport.SERVICE_NAME));

    // If IUs have been specified then only they should be mirrored, otherwise mirror everything.
    if (keys.size() > 0)
        mirror.setArtifactKeys(keys.toArray(new IArtifactKey[keys.size()]));

    if (comparatorLog != null)
        mirror.setComparatorLog(comparatorLog);

    IStatus result = mirror.run(failOnError, verbose);

    if (mirrorLog != null)
        mirrorLog.log(result);
    else
        LogHelper.log(result);
    return result;
}

private IArtifactRepository initializeBaseline() {
    if (baseline == null)
        return null;
    try {
        return addRepository(getArtifactRepositoryManager(), baseline, 0, null);
    }
}

```

```

    } catch (ProvisionException e) {
    if (mirrorLog != null && e.getStatus() != null)
        mirrorLog.log(e.getStatus());
    return null;
    }
}

private void mirrorMetadata(IQueryable<IInstallableUnit> slice, IProgressMonitor monitor) {
    IQueryResult<IInstallableUnit> allIUs = slice.query(QueryUtil.createIUAnyQuery(), monitor);
    destinationMetadataRepository.addInstallableUnits(allIUs.toUnmodifiableSet());
    if (mirrorReferences)
        destinationMetadataRepository.addReferences(getCompositeMetadataRepository().getReferences());
}

/*
 * Ensure all mandatory parameters have been set. Throw an exception if there
 * are any missing. We don't require the user to specify the artifact repository here,
 * we will default to the ones already registered in the manager. (callers are free
 * to add more if they wish)
 */
private void validate() throws ProvisionException {
    if (sourceRepositories.isEmpty())
        throw new ProvisionException(Messages.MirrorApplication_set_source_repositories);
    if (!hasArtifactSources() && destinationArtifactRepository != null)
        throw new ProvisionException(Messages.MirrorApplication_artifactDestinationNoSource);
    if (!hasMetadataSources() && destinationMetadataRepository != null)
        throw new ProvisionException(Messages.MirrorApplication_metadataDestinationNoSource);
}

/*
 * If no IUs have been specified we want to mirror them all
 */
private void initializeIUs() throws ProvisionException {
    IMetadataRepository metadataRepo = getCompositeMetadataRepository();

    if (rootIUs != null) {
        sourceIUs = new ArrayList<IInstallableUnit>();
        for (int i = 0; i < rootIUs.length; i++) {
            String[] segments = getArrayArgsFromString(rootIUs[i], ""); //$NON-NLS-1$
            VersionRange range = segments.length > 1 ? new VersionRange(segments[1]) : null;
            Iterator<IInstallableUnit> queryResult = metadataRepo.query(QueryUtil.createIUQuery(segments[0], range,
null).iterator());
            while (queryResult.hasNext())
                sourceIUs.add(queryResult.next());
        }
    } else if (sourceIUs == null || sourceIUs.isEmpty()) {
        sourceIUs = new ArrayList<IInstallableUnit>();
        Iterator<IInstallableUnit> queryResult = metadataRepo.query(QueryUtil.createIUAnyQuery(), null).iterator();

```

```

while (queryResult.hasNext())
    sourceIUs.add(queryResult.next());
/* old metadata mirroring app did not throw an exception here */
if (sourceIUs.size() == 0 && destinationMetadataRepository != null && metadataOrArtifacts == null)
    throw new ProvisionException(Messages.MirrorApplication_no_IUs);
}
}

/*
 * Initialize logs, if applicable
 */
private void initializeLogs() {
    if (compare && comparatorLogFile != null)
        comparatorLog = getLog(comparatorLogFile, comparatorID);
    if (mirrorLog == null && mirrorLogFile != null)
        mirrorLog = getLog(mirrorLogFile, LOG_ROOT);
}

/*
 * Finalize logs, if applicable
 */
private void finalizeLogs() {
    if (comparatorLog != null)
        comparatorLog.close();
    if (mirrorLog != null)
        mirrorLog.close();
}

/*
 * Get the log for a location
 */
private IArtifactMirrorLog getLog(File location, String root) {
    String absolutePath = location.getAbsolutePath();
    if (absolutePath.toLowerCase().endsWith(".xml")) //$NON-NLS-1$
        return new XMLMirrorLog(absolutePath, 0, root);
    return new FileMirrorLog(absolutePath, 0, root);
}

private IQueryableView<IInstallableUnit> performResolution(IProgressMonitor monitor) throws ProvisionException {
    IProfileRegistry registry = Activator.getProfileRegistry();
    String profileId = "MirrorApplication-" + System.currentTimeMillis(); //$NON-NLS-1$
    IProfile profile = registry.addProfile(profileId, slicingOptions.getFilter());
    IPlanner planner = (IPlanner) Activator.getAgent().getService(IPlanner.SERVICE_NAME);
    if (planner == null)
        throw new IllegalStateException();
    IProfileChangeRequest pcr = planner.createChangeRequest(profile);
    pcr.addAll(sourceIUs);
    IProvisioningPlan plan = planner.getProvisioningPlan(pcr, null, monitor);
}

```



```

registry.removeProfile(profileId);
@SuppressWarnings("unchecked")
IQueryable<IInstallableUnit>[] arr = new IQueryable[plan.getInstallerPlan() == null ? 1 : 2];
arr[0] = plan.getAdditions();
if (plan.getInstallerPlan() != null)
    arr[1] = plan.getInstallerPlan().getAdditions();
return new CompoundQueryable<IInstallableUnit>(arr);
}

private IQueryable<IInstallableUnit> slice(IProgressMonitor monitor) throws ProvisionException {
    if (slicingOptions == null)
        slicingOptions = new SlicingOptions();
    if (slicingOptions.getInstallTimeLikeResolution())
        return performResolution(monitor);

    PermissiveSlicer slicer = new PermissiveSlicer(getCompositeMetadataRepository(), slicingOptions.getFilter(),
slicingOptions.includeOptionalDependencies(), slicingOptions.isEverythingGreedy(),
slicingOptions.forceFilterTo(), slicingOptions.considerStrictDependencyOnly(),
slicingOptions.followOnlyFilteredRequirements());
    IQueryable<IInstallableUnit> slice = slicer.slice(sourceIUs.toArray(new IInstallableUnit[sourceIUs.size()]),
monitor);

    if (slice != null && slicingOptions.latestVersionOnly()) {
        IQueryResult<IInstallableUnit> queryResult = slice.query(QueryUtil.createLatestIUQuery(), monitor);
        slice = queryResult;
    }
    if (slicer.getStatus().getSeverity() != IStatus.OK && mirrorLog != null) {
        mirrorLog.log(slicer.getStatus());
    }
    if (slice == null) {
        throw new ProvisionException(slicer.getStatus());
    }
    return slice;
}

public void setSlicingOptions(SlicingOptions options) {
    slicingOptions = options;
}

/*
 * Set the location of the baseline repository. (used in comparison)
 */
public void setBaseline(Uri baseline) {
    this.baseline = baseline;
    compare = true;
}

/*

```

```

    * Set the identifier of the comparator to use.
    */
    public void setComparatorID(String value) {
        comparatorID = value;
        compare = true;
    }

    /*
    * Set whether or not the application should be calling a comparator when mirroring.
    */
    public void setCompare(boolean value) {
        compare = value;
    }

    /*
    * Set whether or not we should ignore errors when running the mirror application.
    */
    public void setIgnoreErrors(boolean value) {
        failOnError = !value;
    }

    /*
    * Set whether or not the artifacts are raw.
    */
    public void setRaw(boolean value) {
        raw = value;
    }

    /*
    * Set whether or not the mirror application should be run in verbose mode.
    */
    public void setVerbose(boolean value) {
        verbose = value;
    }

    /*
    * Set the location of the log for comparator output
    */
    public void setComparatorLog(File comparatorLog) {
        this.comparatorLogFile = comparatorLog;
    }

    /*
    * Set the location of the log for mirroring.
    */
    public void setLog(File mirrorLog) {
        this.mirrorLogFile = mirrorLog;
    }

```

```

/*
 * Set the ArtifactMirror log
 */
public void setLog(IArtifactMirrorLog log) {
    mirrorLog = log;
}

/*
 * Set if the artifact mirror should be validated
 */
public void setValidate(boolean value) {
    validate = value;
}

/*
 * Set if references should be mirrored
 */
public void setReferences(boolean flag) {
    mirrorReferences = flag;
}

public void setComparatorExclusions(IQuery<IArtifactDescriptor> exclusions) {
    compareExclusions = exclusions;
}
}

/*****
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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *   Sonatype Inc - ongoing development
 *****/

package org.eclipse.equinox.p2.internal.repository.tools;

import java.io.File;
import java.net.URI;
import java.util.*;
import org.eclipse.core.runtime.*;
import org.eclipse.equinox.internal.p2.artifact.repository.simple.SimpleArtifactRepository;
import org.eclipse.equinox.p2.core.ProvisionException;
import org.eclipse.equinox.p2.metadata.IArtifactKey;
import org.eclipse.equinox.p2.query.IQueryResult;

```

```

import org.eclipse.equinox.p2.repository.IRepository;
import org.eclipse.equinox.p2.repository.IRepositoryManager;
import org.eclipse.equinox.p2.repository.artifact.*;
import org.eclipse.equinox.p2.repository.artifact.spi.ArtifactDescriptor;
import org.eclipse.equinox.p2.repository.artifact.spi.ProcessingStepDescriptor;
import org.eclipse.osgi.util.NLS;

public class RecreateRepositoryApplication extends AbstractApplication {
    static final private String PUBLISH_PACK_FILES_AS_SIBLINGS = "publishPackFilesAsSiblings"; //$NON-NLS-1$
    private RepositoryDescriptor descriptor;
    private String repoName = null;
    boolean removeArtifactRepo = true;
    private Map<String, String> repoProperties = null;
    private Map<IArtifactKey, IArtifactDescriptor[]> repoMap = null;

    public IStatus run(IProgressMonitor monitor) throws ProvisionException {
        try {
            IArtifactRepository repository = initialize(monitor);
            removeRepository(repository, monitor);
            recreateRepository(monitor);
        } finally {
            if (removeArtifactRepo) {
                IArtifactRepositoryManager repositoryManager = getArtifactRepositoryManager();
                repositoryManager.removeRepository(descriptor.getRepoLocation());
            }
        }

        return Status.OK_STATUS;
    }

    public void setArtifactRepository(RepositoryDescriptor descriptor) {
        this.descriptor = descriptor;
    }

    private IArtifactRepository initialize(IProgressMonitor monitor) throws ProvisionException {
        IArtifactRepositoryManager repositoryManager = getArtifactRepositoryManager();
        removeArtifactRepo = !repositoryManager.contains(descriptor.getRepoLocation());

        IArtifactRepository repository = repositoryManager.loadRepository(descriptor.getRepoLocation(),
            IRepositoryManager.REPOSITORY_HINT_MODIFIABLE, monitor);

        if (repository == null || !repository.isModifiable())
            throw new ProvisionException(NLS.bind(Messages.exception_destinationNotModifiable,
                repository.getLocation()));
        if (!(repository instanceof IFileArtifactRepository))
            throw new ProvisionException(NLS.bind(Messages.exception_notLocalFileRepo, repository.getLocation()));
    }
}

```

```

repoName = repository.getName();
repoProperties = repository.getProperties();

repoMap = new HashMap<IArtifactKey, IArtifactDescriptor[]>();
IQueryResult<IArtifactKey> keys = repository.query(ArtifactKeyQuery.ALL_KEYS, null);
for (Iterator<IArtifactKey> iterator = keys.iterator(); iterator.hasNext();) {
    IArtifactKey key = iterator.next();
    IArtifactDescriptor[] descriptors = repository.getArtifactDescriptors(key);
    repoMap.put(key, descriptors);
}

return repository;
}

private void removeRepository(IArtifactRepository repository, IProgressMonitor monitor) throws
ProvisionException {
    IArtifactRepositoryManager manager = getArtifactRepositoryManager();
    manager.removeRepository(repository.getLocation());

    boolean compressed = Boolean.valueOf(repoProperties.get(IREpository.PROP_COMPRESSED)).booleanValue();
    URI realLocation = SimpleArtifactRepository.getActualLocation(repository.getLocation(), compressed);
    File realFile = URIUtilToFile(realLocation);
    if (!realFile.exists() || !realFile.delete())
        throw new ProvisionException(NLS.bind(Messages.exception_unableToRemoveRepo, realFile.toString()));
}

private void recreateRepository(IProgressMonitor monitor) throws ProvisionException {
    IArtifactRepositoryManager manager = getArtifactRepositoryManager();

    //add pack200 mappings, the existing repoProperties is not modifiable
    Map<String, String> newProperties = new HashMap<String, String>(repoProperties);
    newProperties.put(PUBLISH_PACK_FILES_AS_SIBLINGS, "true"); //$NON-NLS-1$
    IArtifactRepository repository = manager.createRepository(descriptor.getRepoLocation(), repoName,
IArtifactRepositoryManager.TYPE_SIMPLE_REPOSITORY, newProperties);
    if (!(repository instanceof IFileArtifactRepository))
        throw new ProvisionException(NLS.bind(Messages.exception_notLocalFileRepo, repository.getLocation()));

    IFileArtifactRepository simple = (IFileArtifactRepository) repository;
    for (IArtifactKey key : repoMap.keySet()) {
        IArtifactDescriptor[] descriptors = repoMap.get(key);

        String unpackedSize = null;
        File packFile = null;
        Set<File> files = new HashSet<File>();
        for (int i = 0; i < descriptors.length; i++) {
            File artifactFile = simple.getArtifactFile(descriptors[i]);
            files.add(artifactFile);

```

```

String size = Long.toString(artifactFile.length());

ArtifactDescriptor newDescriptor = new ArtifactDescriptor(descriptors[i]);
newDescriptor.setProperty(IArtifactDescriptor.ARTIFACT_SIZE, size);
newDescriptor.setProperty(IArtifactDescriptor.DOWNLOAD_SIZE, size);

String md5 = RepositoryUtilities.computeMD5(artifactFile);
if (md5 != null)
    newDescriptor.setProperty(IArtifactDescriptor.DOWNLOAD_MD5, md5);

File temp = new File(artifactFile.getParentFile(), artifactFile.getName() + ".pack.gz"); //$NON-NLS-1$
if (temp.exists()) {
    packFile = temp;
    unpackedSize = size;
}

repository.addDescriptor(newDescriptor, null);
}
if (packFile != null && !files.contains(packFile) && packFile.length() > 0) {
    ArtifactDescriptor packDescriptor = createPack200ArtifactDescriptor(key, packFile, unpackedSize);
    repository.addDescriptor(packDescriptor, null);
}
}
}

private ArtifactDescriptor createPack200ArtifactDescriptor(IArtifactKey key, File packFile, String installSize) {

    if (packFile != null && packFile.exists()) {
        ArtifactDescriptor result = new ArtifactDescriptor(key);
        result.setProperty(IArtifactDescriptor.ARTIFACT_SIZE, installSize);
        result.setProperty(IArtifactDescriptor.DOWNLOAD_SIZE, Long.toString(packFile.length()));
        IProcessingStepDescriptor[] steps = new IProcessingStepDescriptor[] { new
ProcessingStepDescriptor("org.eclipse.equinox.p2.processing.Pack200Unpacker", null, true)}; //$NON-NLS-1$
        result.setProcessingSteps(steps);
        result.setProperty(IArtifactDescriptor.FORMAT, IArtifactDescriptor.FORMAT_PACKED);
        return result;
    }
    return null;
}
}

/*****
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* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:

```

```

*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.equinox.p2.internal.repository.tools;

import java.net.MalformedURLException;
import java.net.URI;
import java.util.*;
import org.eclipse.core.runtime.IProgressMonitor;
import org.eclipse.core.runtime.IStatus;
import org.eclipse.equinox.internal.p2.artifact.repository.CompositeArtifactRepository;
import org.eclipse.equinox.internal.p2.core.helpers.LogHelper;
import org.eclipse.equinox.internal.p2.metadata.repository.CompositeMetadataRepository;
import org.eclipse.equinox.internal.p2.repository.helpers.RepositoryHelper;
import org.eclipse.equinox.p2.core.*;
import org.eclipse.equinox.p2.metadata.IInstallableUnit;
import org.eclipse.equinox.p2.repository.*;
import org.eclipse.equinox.p2.repository.artifact.IArtifactRepository;
import org.eclipse.equinox.p2.repository.artifact.IArtifactRepositoryManager;
import org.eclipse.equinox.p2.repository.metadata.IMetadataRepository;
import org.eclipse.equinox.p2.repository.metadata.IMetadataRepositoryManager;
import org.eclipse.osgi.util.NLS;
import org.osgi.framework.ServiceReference;

public abstract class AbstractApplication {
    protected boolean removeAddedRepositories = true;

    protected List<RepositoryDescriptor> sourceRepositories = new ArrayList<RepositoryDescriptor>(); //List of
    repository descriptors
    protected List<URI> artifactReposToRemove = new ArrayList<URI>();
    protected List<URI> metadataReposToRemove = new ArrayList<URI>();
    protected List<IInstallableUnit> sourceIUs = new ArrayList<IInstallableUnit>();
    private List<RepositoryDescriptor> destinationRepos = new ArrayList<RepositoryDescriptor>();

    protected IArtifactRepository destinationArtifactRepository = null;
    protected IMetadataRepository destinationMetadataRepository = null;

    private CompositeMetadataRepository compositeMetadataRepository = null;
    private CompositeArtifactRepository compositeArtifactRepository = null;

    protected IProvisioningAgent agent;

    public AbstractApplication() {
        super();
        try {
            setupAgent();
        } catch (ProvisionException e) {
            LogHelper.log(e);
        }
    }
}

```

```

}

private void setupAgent() throws ProvisionException {
    //note if we ever wanted these applications to act on a different agent than
    //the currently running system we would need to set it here
    ServiceReference<IProvisioningAgent> agentRef =
Activator.getBundleContext().getServiceReference(IProvisioningAgent.class);
    if (agentRef != null) {
        agent = Activator.getBundleContext().getService(agentRef);
        if (agent != null)
            return;
    }
    //there is no agent around so we need to create one
    ServiceReference<IProvisioningAgentProvider> providerRef =
Activator.getBundleContext().getServiceReference(IProvisioningAgentProvider.class);
    if (providerRef == null)
        throw new RuntimeException("No provisioning agent provider is available"); //$NON-NLS-1$
    IProvisioningAgentProvider provider = Activator.getBundleContext().getService(providerRef);
    if (provider == null)
        throw new RuntimeException("No provisioning agent provider is available"); //$NON-NLS-1$
    //obtain agent for currently running system
    agent = provider.createAgent(null);
    Activator.getBundleContext().ungetService(providerRef);
}

public void setSourceIUs(List<IInstallableUnit> ius) {
    sourceIUs = ius;
}

protected void finalizeRepositories() {
    if (removeAddedRepositories) {
        IArtifactRepositoryManager artifactRepositoryManager = getArtifactRepositoryManager();
        for (URI uri : artifactReposToRemove)
            artifactRepositoryManager.removeRepository(uri);
        IMetadataRepositoryManager metadataRepositoryManager = getMetadataRepositoryManager();
        for (URI uri : metadataReposToRemove)
            metadataRepositoryManager.removeRepository(uri);
    }
    metadataReposToRemove = null;
    artifactReposToRemove = null;
    compositeArtifactRepository = null;
    compositeMetadataRepository = null;
    destinationArtifactRepository = null;
    destinationMetadataRepository = null;
}

protected IMetadataRepositoryManager getMetadataRepositoryManager() {
    return (IMetadataRepositoryManager) agent.getService(IMetadataRepositoryManager.SERVICE_NAME);
}

```



```

}

protected IArtifactRepositoryManager getArtifactRepositoryManager() {
    return (IArtifactRepositoryManager) agent.getService(IArtifactRepositoryManager.SERVICE_NAME);
}

public void initializeRepos(IProgressMonitor progress) throws ProvisionException {
    IArtifactRepositoryManager artifactRepositoryManager = getArtifactRepositoryManager();
    IMetadataRepositoryManager metadataRepositoryManager = getMetadataRepositoryManager();
    URI curLocation = null;
    for (RepositoryDescriptor repo : sourceRepositories) {
        try {
            curLocation = repo.getRepoLocation();
            if (repo.isBoth()) {
                addRepository(artifactRepositoryManager, curLocation, 0, progress);
                addRepository(metadataRepositoryManager, curLocation, 0, progress);
            } else if (repo.isArtifact())
                addRepository(artifactRepositoryManager, curLocation, 0, progress);
            else if (repo.isMetadata())
                addRepository(metadataRepositoryManager, curLocation, 0, progress);
            else
                throw new ProvisionException(NLS.bind(Messages.unknown_repository_type, repo.getRepoLocation()));
        } catch (ProvisionException e) {
            if (e.getCause() instanceof MalformedURLException) {
                throw new ProvisionException(NLS.bind(Messages.exception_invalidSource, curLocation), e);
            } else if (e.getStatus().getStatusCode() == ProvisionException.REPOSITORY_NOT_FOUND && repo.isOptional()) {
                continue;
            }
            throw e;
        }
    }
    processDestinationRepos(artifactRepositoryManager, metadataRepositoryManager);
}

//Helper to add a repository. It takes care of adding the repos to the deletion list and loading it
protected IMetadataRepository addRepository(IMetadataRepositoryManager manager, URI location, int flags,
IProgressMonitor monitor) throws ProvisionException {
    if (!manager.contains(location))
        metadataReposToRemove.add(location);
    return manager.loadRepository(location, flags, monitor);
}

//Helper to add a repository. It takes care of adding the repos to the deletion list and loading it
protected IArtifactRepository addRepository(IArtifactRepositoryManager manager, URI location, int flags,
IProgressMonitor monitor) throws ProvisionException {
    if (!manager.contains(location))
        artifactReposToRemove.add(location);
    return manager.loadRepository(location, flags, monitor);
}

```

```

}

private void processDestinationRepos(IArtifactRepositoryManager artifactRepositoryManager,
IMetadataRepositoryManager metadataRepositoryManager) throws ProvisionException {
    RepositoryDescriptor artifactRepoDescriptor = null;
    RepositoryDescriptor metadataRepoDescriptor = null;

    Iterator<RepositoryDescriptor> iter = destinationRepos.iterator();
    while (iter.hasNext() && (artifactRepoDescriptor == null || metadataRepoDescriptor == null)) {
        RepositoryDescriptor repo = iter.next();
        if (repo.isArtifact() && artifactRepoDescriptor == null)
            artifactRepoDescriptor = repo;
        if (repo.isMetadata() && metadataRepoDescriptor == null)
            metadataRepoDescriptor = repo;
    }

    if (artifactRepoDescriptor != null)
        destinationArtifactRepository = initializeDestination(artifactRepoDescriptor, artifactRepositoryManager);
    if (metadataRepoDescriptor != null)
        destinationMetadataRepository = initializeDestination(metadataRepoDescriptor, metadataRepositoryManager);

    if (destinationMetadataRepository == null && destinationArtifactRepository == null)
        throw new ProvisionException(Messages.AbstractApplication_no_valid_destinations);
}

public IMetadataRepository getDestinationMetadataRepository() {
    return destinationMetadataRepository;
}

public IArtifactRepository getDestinationArtifactRepository() {
    return destinationArtifactRepository;
}

protected IMetadataRepository initializeDestination(RepositoryDescriptor toInit, IMetadataRepositoryManager
mgr) throws ProvisionException {
    try {
        IMetadataRepository repository = addRepository(mgr, toInit.getRepoLocation(),
IRepositoryManager.REPOSITORY_HINT_MODIFIABLE, null);
        if (initDestinationRepository(repository, toInit))
            return repository;
    } catch (ProvisionException e) {
        //fall through and create a new repository below
    }

    IMetadataRepository source = null;
    try {
        if (toInit.getFormat() != null)
            source = mgr.loadRepository(toInit.getFormat(), 0, null);
    }
}

```

```

    } catch (ProvisionException e) {
        //Ignore.
    }
    //This code assumes source has been successfully loaded before this point
    //No existing repository; create a new repository at destinationLocation but with source's attributes.
    try {
        IMetadataRepository result = mgr.createRepository(toInit.getRepoLocation(), toInit.getName() != null ?
toInit.getName() : (source != null ? source.getName() : toInit.getRepoLocation().toString()),
IMetadataRepositoryManager.TYPE_SIMPLE_REPOSITORY, source != null ? source.getProperties() : null);
        if (toInit.isCompressed() && !result.getProperties().containsKey(IRepository.PROP_COMPRESSED))
            result.setProperty(IRepository.PROP_COMPRESSED, "true"); //$NON-NLS-1$
        return (IMetadataRepository) RepositoryHelper.validDestinationRepository(result);
    } catch (UnsupportedOperationException e) {
        throw new ProvisionException(NLS.bind(Messages.exception_invalidDestination, toInit.getRepoLocation()),
e.getCause());
    }
}

protected IArtifactRepository initializeDestination(RepositoryDescriptor toInit, IArtifactRepositoryManager mgr)
throws ProvisionException {
    try {
        IArtifactRepository repository = addRepository(mgr, toInit.getRepoLocation(),
IRepositoryManager.REPOSITORY_HINT_MODIFIABLE, null);
        if (initDestinationRepository(repository, toInit))
            return repository;
    } catch (ProvisionException e) {
        //fall through and create a new repository below
    }
    IArtifactRepository source = null;
    try {
        if (toInit.getFormat() != null)
            source = mgr.loadRepository(toInit.getFormat(), 0, null);
    } catch (ProvisionException e) {
        //Ignore.
    }
    //This code assumes source has been successfully loaded before this point
    //No existing repository; create a new repository at destinationLocation but with source's attributes.
    // TODO for now create a Simple repo by default.
    try {
        IArtifactRepository result = mgr.createRepository(toInit.getRepoLocation(), toInit.getName() != null ?
toInit.getName() : (source != null ? source.getName() : toInit.getRepoLocation().toString()),
IArtifactRepositoryManager.TYPE_SIMPLE_REPOSITORY, source != null ? source.getProperties() : null);
        if (toInit.isCompressed() && !result.getProperties().containsKey(IRepository.PROP_COMPRESSED))
            result.setProperty(IRepository.PROP_COMPRESSED, "true"); //$NON-NLS-1$
        return (IArtifactRepository) RepositoryHelper.validDestinationRepository(result);
    } catch (UnsupportedOperationException e) {
        throw new ProvisionException(NLS.bind(Messages.exception_invalidDestination, toInit.getRepoLocation()),
e.getCause());
    }
}

```

```

    }
}

protected boolean initDestinationRepository(IRepository<?> repository, RepositoryDescriptor descriptor) {
    if (repository != null && repository.isModifiable()) {
        if (descriptor.getName() != null)
            repository.setProperty(IRepository.PROP_NAME, descriptor.getName());
        if (repository instanceof ICompositeRepository<?> && !descriptor.isAppend())
            ((ICompositeRepository<?>) repository).removeAllChildren();
        else if (repository instanceof IMetadataRepository && !descriptor.isAppend())
            ((IMetadataRepository) repository).removeAll();
        else if (repository instanceof IArtifactRepository && !descriptor.isAppend())
            ((IArtifactRepository) repository).removeAll();
        return true;
    }
    return false;
}

public IMetadataRepository getCompositeMetadataRepository() {
    if (compositeMetadataRepository == null) {
        compositeMetadataRepository = CompositeMetadataRepository.createMemoryComposite(agent);
        for (RepositoryDescriptor repo : sourceRepositories) {
            if (repo.isMetadata())
                compositeMetadataRepository.addChild(repo.getRepoLocation());
        }
    }
    return compositeMetadataRepository;
}

public IArtifactRepository getCompositeArtifactRepository() {
    if (compositeArtifactRepository == null) {
        compositeArtifactRepository = CompositeArtifactRepository.createMemoryComposite(agent);
        for (RepositoryDescriptor repo : sourceRepositories) {
            if (repo.isArtifact())
                compositeArtifactRepository.addChild(repo.getRepoLocation());
        }
    }
    return compositeArtifactRepository;
}

public boolean hasArtifactSources() {
    return ((ICompositeRepository<?>) getCompositeArtifactRepository()).getChildren().size() > 0;
}

public boolean hasMetadataSources() {
    return ((ICompositeRepository<?>) getCompositeMetadataRepository()).getChildren().size() > 0;
}

```

```

public abstract IStatus run(IProgressMonitor monitor) throws ProvisionException;

public void addDestination(RepositoryDescriptor descriptor) {
    destinationRepos.add(descriptor);
}

public void addSource(RepositoryDescriptor repo) {
    sourceRepositories.add(repo);
}
}

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* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.equinox.p2.internal.repository.tools;

import java.util.Hashtable;
import java.util.Map;

public class SlicingOptions {
    private boolean includeOptionalDependencies = true;
    private boolean everythingGreedy = true;
    private boolean forceFilterTo = true;
    private boolean considerStrictDependencyOnly = false;
    private boolean followOnlyFilteredRequirements = false;
    private boolean latestVersion = false;
    private boolean resolve = false;

    private Map<String, String> filter = null;

    public boolean includeOptionalDependencies() {
        return includeOptionalDependencies;
    }

    public void includeOptionalDependencies(boolean optional) {
        this.includeOptionalDependencies = optional;
    }

    public boolean isEverythingGreedy() {
        return everythingGreedy;
    }
}

```

```

public void everythingGreedy(boolean greedy) {
    this.everythingGreedy = greedy;
}

public boolean forceFilterTo() {
    return forceFilterTo;
}

public void forceFilterTo(boolean forcedTo) {
    this.forceFilterTo = forcedTo;
}

public boolean considerStrictDependencyOnly() {
    return considerStrictDependencyOnly;
}

public void considerStrictDependencyOnly(boolean strict) {
    this.considerStrictDependencyOnly = strict;
}

public Map<String, String> getFilter() {
    if (filter == null)
        filter = new Hashtable<String, String>();
    return filter;
}

public void setFilter(Map<String, String> filter) {
    this.filter = filter;
}

public void followOnlyFilteredRequirements(boolean onlyFiltered) {
    this.followOnlyFilteredRequirements = onlyFiltered;
}

public boolean followOnlyFilteredRequirements() {
    return followOnlyFilteredRequirements;
}

public boolean latestVersionOnly() {
    return latestVersion;
}

public void latestVersionOnly(boolean latest) {
    this.latestVersion = latest;
}

public void installTimeLikeResolution(boolean resolve) {
    this.resolve = resolve;
}

```

```

}

public boolean getInstallTimeLikeResolution() {
    return resolve;
}
}

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* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.equinox.p2.internal.repository.tools;

import java.net.MalformedURLException;
import java.util.ArrayList;
import java.util.List;
import org.eclipse.core.runtime.*;
import org.eclipse.equinox.internal.p2.artifact.repository.CompositeArtifactRepository;
import org.eclipse.equinox.internal.p2.metadata.repository.CompositeMetadataRepository;
import org.eclipse.equinox.internal.p2.repository.helpers.RepositoryHelper;
import org.eclipse.equinox.p2.core.ProvisionException;
import org.eclipse.equinox.p2.metadata.IInstallableUnit;
import org.eclipse.equinox.p2.repository.ICompositeRepository;
import org.eclipse.equinox.p2.repository.IRepository;
import org.eclipse.equinox.p2.repository.artifact.IArtifactRepository;
import org.eclipse.equinox.p2.repository.artifact.IArtifactRepositoryManager;
import org.eclipse.equinox.p2.repository.metadata.IMetadataRepository;
import org.eclipse.equinox.p2.repository.metadata.IMetadataRepositoryManager;
import org.eclipse.osgi.util.NLS;

public class CompositeRepositoryApplication extends AbstractApplication {
    private List<RepositoryDescriptor> childrenToAdd = new ArrayList<RepositoryDescriptor>();
    private List<RepositoryDescriptor> childrenToRemove = new ArrayList<RepositoryDescriptor>();
    private boolean removeAllChildren = false;
    private boolean failOnExists = false;
    private String comparatorID = null;

    @SuppressWarnings("unchecked")
    public IStatus run(IProgressMonitor monitor) throws ProvisionException {
        try {
            initializeRepos(new NullProgressMonitor());
            // load repository
            ICompositeRepository<IInstallableUnit> metadataRepo = (ICompositeRepository<IInstallableUnit>)

```

```

destinationMetadataRepository;
CompositeArtifactRepository artifactRepo = (CompositeArtifactRepository) destinationArtifactRepository;

if (removeAllChildren) {
    if (artifactRepo != null)
        artifactRepo.removeAllChildren();
    if (metadataRepo != null)
        metadataRepo.removeAllChildren();
} else {
    // Remove children from the Composite Repositories
    for (RepositoryDescriptor child : childrenToRemove) {
        if (child.isArtifact() && artifactRepo != null)
            artifactRepo.removeChild(child.getOriginalRepoLocation());
        if (child.isMetadata() && metadataRepo != null)
            metadataRepo.removeChild(child.getOriginalRepoLocation());
    }
}

// Add children to the Composite Repositories
for (RepositoryDescriptor child : childrenToAdd) {
    if (child.isArtifact() && artifactRepo != null)
        artifactRepo.addChild(child.getOriginalRepoLocation());
    if (child.isMetadata() && metadataRepo != null)
        metadataRepo.addChild(child.getOriginalRepoLocation());
}

if (comparatorID != null) {
    ArtifactRepositoryValidator validator = new ArtifactRepositoryValidator(comparatorID);
    return validator.validateComposite(artifactRepo);
}
return Status.OK_STATUS;
} finally {
    finalizeRepositories();
}
}

public void addChild(RepositoryDescriptor child) {
    childrenToAdd.add(child);
}

public void removeChild(RepositoryDescriptor child) {
    childrenToRemove.add(child);
}

public void setRemoveAll(boolean all) {
    removeAllChildren = all;
}

```



```

public void setFailOnExists(boolean value) {
    failOnExists = value;
}

protected IArtifactRepository initializeDestination(RepositoryDescriptor toInit, IArtifactRepositoryManager mgr)
throws ProvisionException {
    // remove the repo first.
    mgr.removeRepository(toInit.getRepoLocation());

    // first try and load to see if one already exists at that location.
    try {
        IArtifactRepository repository = mgr.loadRepository(toInit.getRepoLocation(), null);
        if (validRepositoryLocation(repository) && initDestinationRepository(repository, toInit))
            return repository;
        throw new ProvisionException(new Status(IStatus.INFO, Activator.ID,
NLS.bind(Messages.CompositeRepository_composite_repository_exists, toInit.getRepoLocation())));
    } catch (ProvisionException e) {
        // re-throw the exception if we got anything other than "repo not found"
        if (e.getStatus().getCode() != ProvisionException.REPOSITORY_NOT_FOUND) {
            if (e.getCause() instanceof MalformedURLException)
                throw new ProvisionException(NLS.bind(Messages.exception_invalidDestination, toInit.getRepoLocation()),
e.getCause());
            throw e;
        }
    }

    IArtifactRepository source = null;
    try {
        if (toInit.getFormat() != null)
            source = mgr.loadRepository(toInit.getFormat(), 0, null);
    } catch (ProvisionException e) {
        //Ignore.
    }
    //This code assumes source has been successfully loaded before this point
    try {
        //No existing repository; create a new repository at destinationLocation but with source's attributes.
        IArtifactRepository repo = mgr.createRepository(toInit.getRepoLocation(), toInit.getName() != null ?
toInit.getName() : (source != null ? source.getName() :
Messages.CompositeRepository_default_artifactRepo_name),
IArtifactRepositoryManager.TYPE_COMPOSITE_REPOSITORY, source != null ? source.getProperties() : null);
        initRepository(repo, toInit);
        if (toInit.getAtomic() != null)
            repo.setProperty(CompositeMetadataRepository.PROP_ATOMIC_LOADING,
Boolean.toString(Boolean.valueOf(toInit.getAtomic())));
        return repo;
    } catch (IllegalStateException e) {
        mgr.removeRepository(toInit.getRepoLocation());
        throw e;
    }
}

```

```
}  
}
```

```
protected IMetadataRepository initializeDestination(RepositoryDescriptor toInit, IMetadataRepositoryManager  
mgr) throws ProvisionException {  
    // remove the repo first.  
    mgr.removeRepository(toInit.getRepoLocation());  
  
    // first try and load to see if one already exists at that location.  
    try {  
        IMetadataRepository repository = mgr.loadRepository(toInit.getRepoLocation(), null);  
        if (!invalidRepositoryLocation(repository) && initDestinationRepository(repository, toInit))  
            throw new ProvisionException(new Status(IStatus.INFO, Activator.ID,  
NLS.bind(Messages.CompositeRepository_composite_repository_exists, toInit.getRepoLocation())));  
        return repository;  
    } catch (ProvisionException e) {  
        // re-throw the exception if we got anything other than "repo not found"  
        if (e.getStatus().getCode() != ProvisionException.REPOSITORY_NOT_FOUND) {  
            if (e.getCause() instanceof MalformedURLException)  
                throw new ProvisionException(NLS.bind(Messages.exception_invalidDestination, toInit.getRepoLocation()),  
e.getCause());  
            throw e;  
        }  
    }  
  
    IMetadataRepository source = null;  
    try {  
        if (toInit.getFormat() != null)  
            source = mgr.loadRepository(toInit.getFormat(), 0, null);  
    } catch (ProvisionException e) {  
        //Ignore  
    }  
    //This code assumes source has been successfully loaded before this point  
    try {  
        //No existing repository; create a new repository at destinationLocation but with source's attributes.  
        IMetadataRepository repo = mgr.createRepository(toInit.getRepoLocation(), toInit.getName() != null ?  
toInit.getName() : (source != null ? source.getName() :  
Messages.CompositeRepository_default_metadataRepo_name),  
IMetadataRepositoryManager.TYPE_COMPOSITE_REPOSITORY, source != null ? source.getProperties() : null);  
        initRepository(repo, toInit);  
        if (toInit.getAtomic() != null)  
            repo.setProperty(CompositeMetadataRepository.PROP_ATOMIC_LOADING,  
Boolean.toString(Boolean.valueOf(toInit.getAtomic())));  
        return repo;  
    } catch (IllegalStateException e) {  
        mgr.removeRepository(toInit.getRepoLocation());  
        throw e;  
    }  
}
```

```

}

/*
 * Determine if the repository is valid for this operation
 */
private boolean validRepositoryLocation(IRepository<?> repository) throws ProvisionException {
    if (repository instanceof ICompositeRepository<?>) {
        // if we have an already existing repository at that location, then throw an error
        // if the user told us to
        if (failOnExists)
            throw new ProvisionException(NLS.bind(Messages.CompositeRepository_composite_repository_exists,
repository.getLocation()));
        RepositoryHelper.validDestinationRepository(repository);
        return true;
    }
    // we have a non-composite repo at this location. that is ok because we can co-exist.
    return true;
}

/*
 * Initialize a new repository
 */
private void initRepository(IRepository<?> repository, RepositoryDescriptor desc) {
    RepositoryHelper.validDestinationRepository(repository);
    if (desc.isCompressed() && !repository.getProperties().containsKey(IRepository.PROP_COMPRESSED))
        repository.setProperty(IRepository.PROP_COMPRESSED, String.valueOf(true));
}

public void setComparator(String value) {
    comparatorID = value;
}
}

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 * program and the accompanying materials are made available under the terms of
 * the Eclipse Public License v1.0 which accompanies this distribution, and is
 * available at http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   EclipseSource - initial API and implementation
 *****/
package org.eclipse.equinox.p2.internal.repository.tools;

import java.net.URI;
import java.net.URISyntaxException;
import org.eclipse.core.runtime.*;
import org.eclipse.equinox.app.IApplication;
import org.eclipse.equinox.app.IApplicationContext;

```

```

import org.eclipse.equinox.internal.p2.core.helpers.ServiceHelper;
import org.eclipse.equinox.p2.core.IProvisioningAgent;
import org.eclipse.equinox.p2.repository.metadata.IMetadataRepository;
import org.eclipse.equinox.p2.repository.metadata.IMetadataRepositoryManager;

/**
 *
 */
public class RepositoryAnalyzerApplication implements IApplication {

    private URI uri = null;

    /* (non-Javadoc)
     * @see org.eclipse.equinox.app.IApplication#start(org.eclipse.equinox.app.IApplicationContext)
     */
    public Object start(IApplicationContext context) throws Exception {

        long start = System.currentTimeMillis();
        processArguments((String[]) context.getArguments().get("application.args"));
        IProvisioningAgent agent = (IProvisioningAgent) ServiceHelper.getService(Activator.getBundleContext(),
        IProvisioningAgent.SERVICE_NAME);
        IMetadataRepositoryManager manager = (IMetadataRepositoryManager)
        agent.getService(IMetadataRepositoryManager.SERVICE_NAME);
        IMetadataRepository repository = manager.loadRepository(uri, new NullProgressMonitor());
        RepositoryAnalyzer repositoryAnalyzer = new RepositoryAnalyzer(new IMetadataRepository[] {repository});
        IStatus status = repositoryAnalyzer.analyze(new NullProgressMonitor());
        IStatus[] children = status.getChildren();
        long time = (System.currentTimeMillis()) - start;
        if (status.isOK())
            System.out.println("Repository Analyzer Finished succesfully in " + time + " ms.");
        else
            System.out.println("Repository Analyzer Finished in " + time + " ms with status with errors.");
        for (int i = 0; i < children.length; i++) {
            if (children[i].isOK())
                System.out.print("[OK] ");
            else
                System.out.print("[Error] ");
            System.out.println(children[i].getMessage());
            if (children[i].isMultiStatus() && children[i].getChildren() != null && children[i].getChildren().length > 0) {
                IStatus[] subChildren = children[i].getChildren();
                for (int j = 0; j < subChildren.length; j++) {
                    System.out.println("  " + subChildren[j].getMessage());
                }
            }
        }
        return IApplication.EXIT_OK;
    }
}

```

```

private void processArguments(String[] args) throws CoreException, URISyntaxException {
    for (int i = 0; i < args.length; i++) {
        if ("-m".equals(args[i]) || "-metadataRepository".equals(args[i])) { //$NON-NLS-1$ //$NON-NLS-2$
            if (i + 1 < args.length)
                uri = new URI(args[i + 1]);
        }
    }
    validateLaunch();
}

private void validateLaunch() throws CoreException {
    if (uri == null)
        throw new CoreException(new Status(IStatus.ERROR, Activator.ID, "-metadataRepository <metadataURI> must
be specified"));
}

/* (non-Javadoc)
 * @see org.eclipse.equinox.app.IApplication#stop()
 */
public void stop() {
    // TODO Auto-generated method stub

}

}

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 * program and the accompanying materials are made available under the terms of
 * the Eclipse Public License v1.0 which accompanies this distribution, and is
 * available at http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   EclipseSource - initial API and implementation
 *****/
package org.eclipse.equinox.p2.internal.repository.tools.analyzer;

import org.eclipse.equinox.p2.metadata.MetadataFactory.InstallableUnitDescription;

import org.eclipse.equinox.p2.metadata.ILicense;

import java.util.Collection;
import org.eclipse.equinox.p2.metadata.IInstallableUnit;
import org.eclipse.equinox.p2.repository.metadata.IMetadataRepository;
import org.eclipse.equinox.p2.repository.tools.analyzer.IUAnalyzer;

/**
 * This service checks that each IU has a license.
 */

```

```

public class LicenseAnalyzer extends IUAnalyzer {

    public void analyzeIU(IInstallableUnit iu) {
        if (Boolean.valueOf(iu.getProperty(InstallableUnitDescription.PROP_TYPE_GROUP)).booleanValue()) {
            Collection<ILicense> licenses = iu.getLicenses();
            if (iu.getLicenses() == null || licenses.size() == 0) {
                // If there is no license then this is an error
                error(iu, "[ERROR] " + iu.getId() + " has no license");
                return;
            } else if (licenses.iterator().next().getBody().length() == 0) {
                error(iu, "[ERROR] " + iu.getId() + " has no license");
                return;
            }
            for (ILicense license : licenses) {
                if (license.getBody().startsWith("%")) {
                    String licenseProperty = license.getBody().substring(1);
                    if (iu.getProperty("df_LT." + licenseProperty) == null) {
                        error(iu, "[ERROR] " + iu.getId() + " has no license");
                    }
                }
            }
        }
    }

    public void preAnalysis(IMetadataRepository repository) {
        // Do nothing
    }
}

```

1.542

org.eclipse.equinox.p2.touchpoint.eclipse

2.1.0.v20110511-wso2v1

1.542.1 Available under license :

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1.543

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1.544 org.eclipse.equinox.p2.transport.ecf

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import java.security.Principal;
import org.eclipse.equinox.security.auth.credentials.IPublicCredential;

public class EquinoxPublicCredential implements IPublicCredential {

    final private String name;
    final private Principal primaryRole;
    final private Principal[] roles;
    final private String loginModuleID;

    public EquinoxPublicCredential(String name, Principal primaryRole, String loginModuleID) {
        this.name = name;
        this.primaryRole = primaryRole;
        this.roles = null;
        this.loginModuleID = loginModuleID;
    }

    public EquinoxPublicCredential(String name, Principal[] roles, String loginModuleID) {
        this.name = name;
        this.primaryRole = null;
        this.roles = roles;
        this.loginModuleID = loginModuleID;
    }

    public String getName() {
        return name;
    }

    public Principal getPrimaryRole() {
        if (primaryRole != null)

```



```

    return primaryRole;
    if (roles != null && roles.length >= 1)
        return roles[0];
    return null;
}

public Principal[] getRoles() {
    return roles;
}

public String getProviderID() {
    return loginModuleID;
}

}

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 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/
package org.eclipse.equinox.security.auth.credentials;

import java.security.Principal;
import javax.security.auth.Subject;

/**
 * This interface describes public credentials added by the Equinox login modules.
 * <p>
 * This interface should not be extended by clients.
 * </p>
 * @see Subject#getPublicCredentials()
 * @noimplement This interface is not intended to be implemented by clients.
 */
public interface IPublicCredential extends Principal {

    /**
     * Returns user's primary role, if set. Might return <code>null</code> if
     * primary role is not set.
     * @return user's primary role. Returns <code>null</code> if there is no primary role.
     */
    public Principal getPrimaryRole();

}

```

```

* Returns user's roles. Might return <code>null</code> if there are no roles.
* @return user's roles. Returns <code>null</code> if there are no roles.
*/
public Principal[] getRoles();

/**
* ID of the provider of this public credential.
* @return provider ID
*/
public String getProviderID();
}

```

1.550 org.eclipse.equinox.simpleconfigurator 1.0.301.v20120828-033635

1.550.1 Available under license :

```

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*****/
package org.eclipse.equinox.internal.simpleconfigurator;

import java.io.File;
import java.io.IOException;
import java.net.*;
import java.util.List;
import org.eclipse.equinox.internal.provisional.configurator.Configurator;
import org.eclipse.equinox.internal.simpleconfigurator.utils.*;
import org.osgi.framework.Bundle;
import org.osgi.framework.BundleContext;

/*
* SimpleConfigurator provides ways to install bundles listed in a file
* accessible by the specified URL and expect states for it in advance without
* actual application.
*
* In every methods of SimpleConfiguration object,
*
* 1. A value will be gotten by @link BundleContext#getProperty(key) with
* @link SimpleConfiguratorConstants#PROP_KEY_EXCLUSIVE_INSTALLATION} as a key.

```

- * 2. If it equals "true", it will do exclusive installation, which means that
- * the bundles will not be listed in the specified url but installed at the time
- * of the method call except SystemBundle will be uninstalled. Otherwise, no
- * uninstallation will not be done.

*/

```
public class SimpleConfiguratorImpl implements Configurator {

    private static URL configurationURL = null;
    private static Object configurationLock = new Object();

    private BundleContext context;
    private ConfigApplier configApplier;
    private Bundle bundle;

    public SimpleConfiguratorImpl(BundleContext context, Bundle bundle) {
        this.context = context;
        this.bundle = bundle;
    }

    private URL getConfigurationURL() throws IOException {
        String specifiedURL = context.getProperty(SimpleConfiguratorConstants.PROP_KEY_CONFIGURL);
        if (specifiedURL == null)
            specifiedURL = "file:" + SimpleConfiguratorConstants.CONFIGURATOR_FOLDER + "/" +
SimpleConfiguratorConstants.CONFIG_LIST;

        try {
            //If it is not a file URL use it as is
            if (!specifiedURL.startsWith("file:"))
                return new URL(specifiedURL);
        } catch (MalformedURLException e) {
            return null;
        }

        try {
            // if it is an absolute file URL, use it as is
            boolean done = false;
            URL url = null;
            String file = specifiedURL;
            while (!done) {
                // TODO what is this while loop for? nested file:file:file: urls?
                try {
                    url = Utils.buildURL(file);
                    file = url.getFile();
                } catch (java.net.MalformedURLException e) {
                    done = true;
                }
            }
            if (url != null && new File(url.getFile()).isAbsolute())

```

```

return url;

//if it is an relative file URL, then resolve it against the configuration area
// TODO Support relative file URLs when not on Equinox
URL[] configURL = EquinoxUtils.getConfigAreaURL(context);
if (configURL != null) {
    File userConfig = new File(configURL[0].getFile(), url.getFile());
    if (configURL.length == 1)
        return userConfig.exists() ? userConfig.toURL() : null;

    File sharedConfig = new File(configURL[1].getFile(), url.getFile());
    if (!userConfig.exists())
        return sharedConfig.exists() ? sharedConfig.toURL() : null;

    if (!sharedConfig.exists())
        return userConfig.toURL();

    URI base = EquinoxUtils.getInstallLocationURI(context);

    URL sharedConfigURL = sharedConfig.toURL();
    List sharedBundles = SimpleConfiguratorUtils.readConfiguration(sharedConfigURL, base);

    URL userConfigURL = userConfig.toURL();
    List userBundles = SimpleConfiguratorUtils.readConfiguration(userConfigURL, base);

    return (userBundles.containsAll(sharedBundles)) ? userConfigURL : sharedConfigURL;
}
} catch (MalformedURLException e) {
return null;
}

//Last resort
try {
return Utils.buildURL(specifiedURL);
} catch (MalformedURLException e) {
//Ignore
}

return null;
}

public void applyConfiguration(URL url) throws IOException {
synchronized (configurationLock) {
if (Activator.DEBUG)
    System.out.println("applyConfiguration() URL=" + url);
if (url == null)
    return;
configurationURL = url;
}
}

```

```

    if (this.configApplier == null)
        configApplier = new ConfigApplier(context, bundle);
    configApplier.install(url, isExclusiveInstallation());
}
}

private boolean isExclusiveInstallation() {
    String value = context.getProperty(SimpleConfiguratorConstants.PROP_KEY_EXCLUSIVE_INSTALLATION);
    if (value == null || value.trim().length() == 0)
        value = "true";
    return Boolean.valueOf(value).booleanValue();
}

public void applyConfiguration() throws IOException {
    synchronized (configurationLock) {
        configurationURL = getConfigurationURL();
        applyConfiguration(configurationURL);
    }
}

public URL getUrlInUse() {
    synchronized (configurationLock) {
        return configurationURL;
    }
}
}

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* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.equinox.internal.simpleconfigurator;

import org.osgi.framework.*;

public class SimpleConfiguratorFactory implements ServiceFactory {
    private BundleContext context;

    public SimpleConfiguratorFactory(BundleContext context) {
        this.context = context;
    }
}

```

```

public Object getService(Bundle bundle, ServiceRegistration registration) {
    return new SimpleConfiguratorImpl(context, bundle);
}

public void ungetService(Bundle bundle, ServiceRegistration registration, Object service) {
    // nothing to do
}
}
}
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*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.equinox.internal.simpleconfigurator.utils;

public class SimpleConfiguratorConstants {
    /**
     * If BundleContext#getProperty(PROP_KEY_EXCLUSIVE_INSTALLATION) equals "true" ignoring case,
     * Configurator.applyConfiguration(url) will uninstall the installed bundles which are not
     * listed in the simpleconfigurator config file after install bundles listed.
     * Otherwise, it never uninstall any bundles.
     *
     * Default: true
     */
    public static final String PROP_KEY_EXCLUSIVE_INSTALLATION =
"org.eclipse.equinox.simpleconfigurator.exclusiveInstallation"; //$NON-NLS-1$

    /**
     * If BundleContext#getProperty(PROP_KEY_USE_REFERENCE) does not equal "false" ignoring case,
     * when a SimpleConfigurator installs a bundle, "reference:" is added to its bundle location in order to avoid
     * caching its bundle jar. Otherwise, it will add nothing to any bundle location.
     *
     * Default: true
     */
    public static final String PROP_KEY_USE_REFERENCE =
"org.eclipse.equinox.simpleconfigurator.useReference"; //$NON-NLS-1$

    /**
     * BundleContext#getProperty(PROP_KEY_CONFIGURL) is used for SimpleConfigurator to do life cycle control
     of bundles.
     * The file specified by the returned url is read by SimpleConfigurator and do life cycle control according to it.
     * If improper value or null is returned, SimpleConfigurator doesn't do it.
     *
     */

```

```

* Default: null
*/
public static final String PROP_KEY_CONFIGURL = "org.eclipse.equinox.simpleconfigurator.configUrl";
//$NON-NLS-1$

public static final String CONFIG_LIST = "bundles.info"; //$NON-NLS-1$
public static final String CONFIGURATOR_FOLDER = "org.eclipse.equinox.simpleconfigurator"; //$NON-NLS-1$
1$

public static final String TARGET_CONFIGURATOR_NAME = "org.eclipse.equinox.simpleconfigurator";
//$NON-NLS-1$

public static final String PARAMETER_BASEURL = "org.eclipse.equinox.simpleconfigurator.baseUrl"; //$NON-NLS-1$
NLS-1$

}
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* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*
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*****/
package org.eclipse.equinox.internal.simpleconfigurator.utils;

import java.io.*;
import java.net.*;
import java.util.*;
import org.eclipse.osgi.service.resolver.VersionRange;
import org.osgi.framework.Version;

public class SimpleConfiguratorUtils {

private static final String UNC_PREFIX = "/";
private static final String VERSION_PREFIX = "#version=";
public static final Version COMPATIBLE_VERSION = new Version(1, 0, 0);
public static final VersionRange VERSION_TOLERANCE = new VersionRange(COMPATIBLE_VERSION, true,
new Version(2, 0, 0), false);

private static final String FILE_SCHEME = "file";
private static final String REFERENCE_PREFIX = "reference:";
private static final String FILE_PREFIX = "file:";
private static final String COMMA = ",";
private static final String ENCODED_COMMA = "%2C";

public static List readConfiguration(URL url, URI base) throws IOException {
List bundles = new ArrayList();

```

```

BufferedReader r = null;
try {
    r = new BufferedReader(new InputStreamReader(url.openStream()));
} catch (IOException e) {
    // if the exception is a FNF we return an empty bundle list
    if (e instanceof FileNotFoundException)
        return bundles;
    throw e;
}
try {
    String line;
    while ((line = r.readLine()) != null) {
        line = line.trim();
        //ignore any comment or empty lines
        if (line.length() == 0)
            continue;

        if (line.startsWith("#")) { //$NON-NLS-1$
            parseCommentLine(line);
            continue;
        }

        BundleInfo bundleInfo = parseBundleInfoLine(line, base);
        if (bundleInfo != null)
            bundles.add(bundleInfo);
    }
} finally {
    try {
        r.close();
    } catch (IOException ex) {
        // ignore
    }
}
return bundles;
}

public static void parseCommentLine(String line) {
    // version
    if (line.startsWith(VERSION_PREFIX)) {
        String version = line.substring(VERSION_PREFIX.length()).trim();
        if (!VERSION_TOLERANCE.isIncluded(new Version(version)))
            throw new IllegalArgumentException("Invalid version: " + version);
    }
}

public static BundleInfo parseBundleInfoLine(String line, URI base) {
    // symbolicName,version,location,startLevel,markedAsStarted

```



```

StringTokenizer tok = new StringTokenizer(line, COMMA);
int numberOfTokens = tok.countTokens();
if (numberOfTokens < 5)
    throw new IllegalArgumentException("Line does not contain at least 5 tokens: " + line);

String symbolicName = tok.nextToken().trim();
String version = tok.nextToken().trim();
URI location = parseLocation(tok.nextToken().trim());
int startLevel = Integer.parseInt(tok.nextToken().trim());
boolean markedAsStarted = Boolean.valueOf(tok.nextToken()).booleanValue();
BundleInfo result = new BundleInfo(symbolicName, version, location, startLevel, markedAsStarted);
if (!location.isAbsolute())
    result.setBaseLocation(base);
return result;
}

public static URI parseLocation(String location) {
    // decode any commas we previously encoded when writing this line
    int encodedCommaIndex = location.indexOf(ENCODED_COMMA);
    while (encodedCommaIndex != -1) {
        location = location.substring(0, encodedCommaIndex) + COMMA + location.substring(encodedCommaIndex + 3);
        encodedCommaIndex = location.indexOf(ENCODED_COMMA);
    }

    if (File.separatorChar != '/') {
        int colon = location.indexOf(':');
        String scheme = colon < 0 ? null : location.substring(0, colon);
        if (scheme == null || scheme.equals(FILE_SCHEME))
            location = location.replace(File.separatorChar, '/');
        //if the file is a UNC path, insert extra leading // if needed to make a valid URI (see bug 207103)
        if (scheme == null) {
            if (location.startsWith(UNC_PREFIX) && !location.startsWith(UNC_PREFIX, 2))
                location = UNC_PREFIX + location;
        } else {
            //insert UNC prefix after the scheme
            if (location.startsWith(UNC_PREFIX, colon + 1) && !location.startsWith(UNC_PREFIX, colon + 3))
                location = location.substring(0, colon + 3) + location.substring(colon + 1);
        }
    }

    try {
        URI uri = new URI(location);
        if (!uri.isOpaque())
            return uri;
    } catch (URISyntaxException e1) {
        // this will catch the use of invalid URI characters (e.g. spaces, etc.)
        // ignore and fall through
    }
}

```

```

try {
    return URIUtil.fromString(location);
} catch (URISyntaxException e) {
    throw new IllegalArgumentException("Invalid location: " + location);
}
}

```

```

public static void transferStreams(InputStream source, OutputStream destination) throws IOException {
    source = new BufferedInputStream(source);
    destination = new BufferedOutputStream(destination);
    try {
        byte[] buffer = new byte[8192];
        while (true) {
            int bytesRead = -1;
            if ((bytesRead = source.read(buffer)) == -1)
                break;
            destination.write(buffer, 0, bytesRead);
        }
    } finally {
        try {
            source.close();
        } catch (IOException e) {
            // ignore
        }
        try {
            destination.close();
        } catch (IOException e) {
            // ignore
        }
    }
}

```

```

// This will produce an unencoded URL string
public static String getBundleLocation(BundleInfo bundle, boolean useReference) {
    URI location = bundle.getLocation();
    String scheme = location.getScheme();
    String host = location.getHost();
    String path = location.getPath();

    if (location.getScheme() == null) {
        URI baseLocation = bundle.getBaseLocation();
        if (baseLocation != null && baseLocation.getScheme() != null) {
            scheme = baseLocation.getScheme();
            host = baseLocation.getHost();
        }
    }
}

```

```

String bundleLocation = null;
try {
    URL bundleLocationURL = new URL(scheme, host, path);
    bundleLocation = bundleLocationURL.toExternalForm();

} catch (MalformedURLException e1) {
    bundleLocation = location.toString();
}

if (useReference && bundleLocation.startsWith(FILE_PREFIX))
    bundleLocation = REFERENCE_PREFIX + bundleLocation;
return bundleLocation;
}
}

```

1.551

org.eclipse.equinox.simpleconfigurator.manipulator 2.0.0.v20110808-1657

1.551.1 Available under license :

```

/*****

```

```

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*

```

```

* Contributors:

```

```

* IBM Corporation - initial API and implementation

```

```

*****/

```

```

package org.eclipse.equinox.internal.simpleconfigurator.manipulator;

```

```

import org.eclipse.equinox.internal.provisional.configuratoremanipulator.ConfiguratorManipulator;
import org.eclipse.equinox.internal.provisional.configuratoremanipulator.ConfiguratorManipulatorFactory;

```

```

public class SimpleConfiguratorManipulatorFactoryImpl extends ConfiguratorManipulatorFactory {

```

```

    protected ConfiguratorManipulator createConfiguratorManipulator() {
        return new SimpleConfiguratorManipulatorImpl();
    }

```

```

}

```

```

/*****

```

```

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```

```

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*****/
package org.eclipse.equinox.internal.simpleconfigurator.manipulator;

import java.io.*;
import java.net.URI;
import java.net.URL;
import java.util.*;
import org.eclipse.core.runtime.URIUtil;
import org.eclipse.equinox.frameworkadmin.BundleInfo;
import org.eclipse.equinox.internal.frameworkadmin.equinox.ParserUtils;
import org.eclipse.equinox.internal.frameworkadmin.utils.Utils;
import org.eclipse.equinox.internal.provisional.configuratoremanipulator.ConfiguratorManipulator;
import org.eclipse.equinox.internal.provisional.frameworkadmin.*;
import org.eclipse.equinox.internal.simpleconfigurator.SimpleConfiguratorImpl;
import org.eclipse.equinox.internal.simpleconfigurator.utils.EquinoxUtils;
import org.eclipse.equinox.internal.simpleconfigurator.utils.SimpleConfiguratorUtils;
import org.eclipse.equinox.simpleconfigurator.manipulator.SimpleConfiguratorManipulator;
import org.eclipse.osgi.service.datalocation.Location;
import org.osgi.framework.BundleContext;
import org.osgi.framework.Constants;

/**
 *
 */
public class SimpleConfiguratorManipulatorImpl implements SimpleConfiguratorManipulator,
ConfiguratorManipulator {
    class LocationInfo {
        URI[] prerequisiteLocations = null;
        URI systemBundleLocation = null;
        URI[] systemFragmentedBundleLocations = null;
    }

    private final static boolean DEBUG = false;

    private static final BundleInfo[] NULL_BUNDLEINFOS = new BundleInfo[0];

    public static final String PROP_KEY_EXCLUSIVE_INSTALLATION =
"org.eclipse.equinox.simpleconfigurator.exclusiveInstallation"; //$NON-NLS-1$
    public static final String CONFIG_LIST = "bundles.info"; //$NON-NLS-1$
    public static final String CONFIGURATOR_FOLDER = "org.eclipse.equinox.simpleconfigurator"; //$NON-NLS-
1$
    public static final String PROP_KEY_CONFIGURL = "org.eclipse.equinox.simpleconfigurator.configUrl";
//$NON-NLS-1$

```

```

private Set manipulators = new HashSet();

/**
 * Return the ConfiguratorConfigFile which is determined
 * by the parameters set in Manipulator.
 *
 * @param manipulator
 * @return File
 */
private static File getConfigFile(Manipulator manipulator) throws IllegalStateException {
    File fwConfigLoc = manipulator.getLauncherData().getFwConfigLocation();
    File baseDir = null;
    if (fwConfigLoc == null) {
        baseDir = manipulator.getLauncherData().getHome();
        if (baseDir == null) {
            if (manipulator.getLauncherData().getLauncher() != null) {
                baseDir = manipulator.getLauncherData().getLauncher().getParentFile();
            } else {
                throw new IllegalStateException("All of fwConfigFile, home, launcher are not set.");
            }
        }
    } else {
        if (fwConfigLoc.exists())
            if (fwConfigLoc.isDirectory())
                baseDir = fwConfigLoc;
            else
                baseDir = fwConfigLoc.getParentFile();
        else {
            // TODO We need to decide whether launcher data configLocation is the location of a file or a directory
            if (fwConfigLoc.getName().endsWith(".ini")) //$NON-NLS-1$
                baseDir = fwConfigLoc.getParentFile();
            else
                baseDir = fwConfigLoc;
        }
    }
    File configuratorFolder = new File(baseDir, SimpleConfiguratorManipulatorImpl.CONFIGURATOR_FOLDER);
    File targetFile = new File(configuratorFolder, SimpleConfiguratorManipulatorImpl.CONFIG_LIST);
    if (!Utils.createParentDir(targetFile))
        return null;
    return targetFile;
}

static boolean isPrerequisiteBundles(URI location, LocationInfo info) {
    boolean ret = false;

    if (info.prerequisiteLocations == null)
        return false;
    for (int i = 0; i < info.prerequisiteLocations.length; i++)

```

```

    if (location.equals(info.prerequisiteLocations[i])) {
        ret = true;
        break;
    }

    return ret;
}

static boolean isSystemBundle(Uri location, LocationInfo info) {
    if (info.systemBundleLocation == null)
        return false;
    if (location.equals(info.systemBundleLocation))
        return true;
    return false;
}

static boolean isSystemFragmentBundle(Uri location, LocationInfo info) {
    boolean ret = false;
    if (info.systemFragmentedBundleLocations == null)
        return false;
    for (int i = 0; i < info.systemFragmentedBundleLocations.length; i++)
        if (location.equals(info.systemFragmentedBundleLocations[i])) {
            ret = true;
            break;
        }
    return ret;
}

private static boolean isTargetConfiguratorBundle(BundleInfo[] bInfos) {
    for (int i = 0; i < bInfos.length; i++) {
        if (isTargetConfiguratorBundle(bInfos[i].getLocation())) {
            return true;
            //TODO confirm that startlevel of configurator bundle must be no larger than beginning start level of fw. However,
            there is no way to know the start level of cached ones.
        }
    }
    return false;
}

private static boolean isTargetConfiguratorBundle(Uri location) {
    final String symbolic = Utils.getPathFromClause(Utils.getManifestMainAttributes(location,
    Constants.BUNDLE_SYMBOLICNAME));
    return
    (SimpleConfiguratorManipulator.SERVICE_PROP_VALUE_CONFIGURATOR_SYMBOLICNAME.equals(sym
    bolic));
}

private void algorithm(int initialSl, SortedMap bsIToList, BundleInfo configuratorBInfo, List setToInitialConfig,

```

```

List setToSimpleConfig, LocationInfo info) {
    int configuratorSL = configuratorBInfo.getStartLevel();

    Integer sL0 = (Integer) bsIToList.keySet().iterator().next();// StartLevel == 0;
    List list0 = (List) bsIToList.get(sL0);
    if (sL0.intValue() == 0)
        for (Iterator ite2 = list0.iterator(); ite2.hasNext();) {
            BundleInfo bInfo = (BundleInfo) ite2.next();
            if (isSystemBundle(bInfo.getLocation(), info)) {
                setToSimpleConfig.add(bInfo);
                break;
            }
        }

    for (Iterator ite = bsIToList.keySet().iterator(); ite.hasNext();) {
        Integer sL = (Integer) ite.next();
        List list = (List) bsIToList.get(sL);

        if (sL.intValue() < configuratorSL) {
            for (Iterator ite2 = list.iterator(); ite2.hasNext();) {
                BundleInfo bInfo = (BundleInfo) ite2.next();
                if (!isSystemBundle(bInfo.getLocation(), info))
                    setToInitialConfig.add(bInfo);
            }
        } else if (sL.intValue() > configuratorSL) {
            for (Iterator ite2 = list.iterator(); ite2.hasNext();) {
                BundleInfo bInfo = (BundleInfo) ite2.next();
                if (isPrerequisiteBundles(bInfo.getLocation(), info) || isSystemFragmentBundle(bInfo.getLocation(), info))
                    if (!isSystemBundle(bInfo.getLocation(), info))
                        setToInitialConfig.add(bInfo);
                setToSimpleConfig.add(bInfo);
            }
        } else {
            boolean found = false;
            for (Iterator ite2 = list.iterator(); ite2.hasNext();) {
                BundleInfo bInfo = (BundleInfo) ite2.next();
                if (found) {
                    if (!isSystemBundle(bInfo.getLocation(), info))
                        if (isPrerequisiteBundles(bInfo.getLocation(), info) || isSystemFragmentBundle(bInfo.getLocation(), info))
                            setToInitialConfig.add(bInfo);
                    setToSimpleConfig.add(bInfo);
                    continue;
                }
            }
            if (isTargetConfiguratorBundle(bInfo.getLocation()))
                found = true;
            else if (!isSystemBundle(bInfo.getLocation(), info))
                setToInitialConfig.add(bInfo);
            setToSimpleConfig.add(bInfo);
        }
    }
}

```

```

    }
    }
}

setToInitialConfig.add(configuratorBInfo);
}

private boolean checkResolve(BundleInfo bInfo, BundlesState state) { //throws ManipulatorException {
    if (bInfo == null)
        throw new IllegalArgumentException("bInfo is null.");

    if (!state.isResolved())
        state.resolve(false);
    // if (DEBUG)
    // System.out.println(state.toString());

    if (!state.isResolved(bInfo)) {
        printoutUnsatisfiedConstraints(bInfo, state);
        return false;
    }
    return true;
}

private boolean divideBundleInfos(Manipulator manipulator, List setToInitialConfig, List setToSimpleConfig, final
int initialBSL) {
    BundlesState state = manipulator.getBundlesState();
    BundleInfo[] targetBundleInfos = null;
    if (state.isFullySupported()) {
        targetBundleInfos = state.getExpectedState();
    } else {
        targetBundleInfos = manipulator.getConfigData().getBundles();
    }
    BundleInfo configuratorBInfo = null;
    for (int i = 0; i < targetBundleInfos.length; i++) {
        if (isTargetConfiguratorBundle(targetBundleInfos[i].getLocation()) {
            if (targetBundleInfos[i].isMarkedAsStarted()) {
                configuratorBInfo = targetBundleInfos[i];
                break;
            }
        }
    }
    if (configuratorBInfo == null && !manipulators.contains(manipulator)) {
        return false;
    } else if (manipulators.contains(manipulator) && targetBundleInfos.length == 0) {
        // Resulting state will have no bundles - so is an uninstall, including
        // uninstall of the configurator. However, we have seen this manipulator
        // before with a target configurator bundle, so allow uninstall to proceed,
        // but only get one chance.
    }
}

```



```

manipulators.remove(manipulator);
} else if (!manipulators.contains(manipulator)) {
manipulators.add(manipulator);
}

if (state.isFullySupported()) {
state.resolve(false);
}

LocationInfo info = new LocationInfo();
setSystemBundles(state, info);
if (configuratorBInfo != null) {
setPrerequisiteBundles(configuratorBInfo, state, info);
SortedMap bsIToList = getSortedMap(initialBSL, targetBundleInfos);
algorithm(initialBSL, bsIToList, configuratorBInfo, setToInitialConfig, setToSimpleConfig, info);
}
return true;
}

private SortedMap getSortedMap(int initialSl, BundleInfo[] bInfos) {
SortedMap bsIToList = new TreeMap();
for (int i = 0; i < bInfos.length; i++) {
Integer sL = new Integer(bInfos[i].getStartLevel());
if (sL.intValue() == BundleInfo.NO_LEVEL)
sL = new Integer(initialSl);
List list = (List) bsIToList.get(sL);
if (list == null) {
list = new LinkedList();
bsIToList.put(sL, list);
}
list.add(bInfos[i]);
}
return bsIToList;
}

private BundleInfo[] orderingInitialConfig(List setToInitialConfig) {
List notToBeStarted = new LinkedList();
List toBeStarted = new LinkedList();
for (Iterator ite2 = setToInitialConfig.iterator(); ite2.hasNext();) {
BundleInfo bInfo = (BundleInfo) ite2.next();
if (bInfo.isMarkedAsStarted())
toBeStarted.add(bInfo);
else
notToBeStarted.add(bInfo);
}
setToInitialConfig.clear();
setToInitialConfig.addAll(notToBeStarted);
setToInitialConfig.addAll(toBeStarted);
}

```

```

return Utils.getBundleInfosFromList(setToInitialConfig);

}

private void printoutUnsatisfiedConstraints(BundleInfo bInfo, BundlesState state) {
if (DEBUG) {
StringBuffer sb = new StringBuffer();
sb.append("Missing constraints:\n"); //$NON-NLS-1$
String[] missings = state.getUnsatisfiedConstraints(bInfo);
for (int i = 0; i < missings.length; i++)
sb.append(" " + missings[i] + "\n"); //$NON-NLS-1$ //$NON-NLS-2$
System.out.println(sb.toString());
}
}

public BundleInfo[] loadConfiguration(BundleContext context, String infoPath) throws IOException {
URI installArea = EquinoxUtils.getInstallLocationURI(context);

URL configURL = null;
InputStream stream = null;

if (infoPath == null) {
SimpleConfiguratorImpl simpleImpl = new SimpleConfiguratorImpl(context, null);
configURL = simpleImpl.getConfigurationURL();
} else {
// == (not .equals) use the default source info, currently SOURCE_INFO_PATH
boolean defaultSource = (infoPath == SOURCE_INFO);
if (defaultSource)
infoPath = SOURCE_INFO_PATH;

Location configLocation = EquinoxUtils.getConfigLocation(context);
configURL = configLocation.getDataArea(infoPath);
try {
stream = configURL.openStream();
} catch (FileNotFoundException e) {
if (defaultSource && configLocation.getParentLocation() != null) {
configURL = configLocation.getParentLocation().getDataArea(infoPath);
} else {
return new BundleInfo[0];
}
}
}

if (configURL == null)
return new BundleInfo[0];
else if (stream == null) {
try {
stream = configURL.openStream();
} catch (FileNotFoundException e) {

```

```

    return new BundleInfo[0];
}
}

//stream will be closed
return loadConfiguration(stream, installArea);
}

/*
 * InputStream must be closed
 * (non-Javadoc)
 * @see
org.eclipse.equinox.simpleconfigurator.manipulator.SimpleConfiguratorManipulator#loadConfiguration(java.io.Inp
utStream, java.net.URI)
 */
public BundleInfo[] loadConfiguration(InputStream stream, URI installArea) throws IOException {
    if (stream == null)
        return NULL_BUNDLEINFOS;

    List simpleBundles = SimpleConfiguratorUtils.readConfiguration(stream, installArea);

    // convert to FrameworkAdmin BundleInfo Type
    BundleInfo[] result = new BundleInfo[simpleBundles.size()];
    int i = 0;
    for (Iterator iterator = simpleBundles.iterator(); iterator.hasNext();) {
        org.eclipse.equinox.internal.simpleconfigurator.utils.BundleInfo simpleInfo =
(org.eclipse.equinox.internal.simpleconfigurator.utils.BundleInfo) iterator.next();
        URI location = simpleInfo.getLocation();
        if (!location.isAbsolute() && simpleInfo.getBaseLocation() != null)
            location = URIUtil.makeAbsolute(location, simpleInfo.getBaseLocation());

        BundleInfo bundleInfo = new BundleInfo(simpleInfo.getSymbolicName(), simpleInfo.getVersion(), location,
simpleInfo.getStartLevel(), simpleInfo.isMarkedAsStarted());
        bundleInfo.setBaseLocation(simpleInfo.getBaseLocation());
        result[i++] = bundleInfo;
    }
    return result;
}

public void saveConfiguration(BundleInfo[] configuration, OutputStream stream, URI installArea) throws
IOException {
    org.eclipse.equinox.internal.simpleconfigurator.utils.BundleInfo[] simpleInfos = convertBundleInfos(configuration,
installArea);
    SimpleConfiguratorManipulatorUtils.writeConfiguration(simpleInfos, stream);
}

public void saveConfiguration(BundleInfo[] configuration, File outputFile, URI installArea) throws IOException {
    saveConfiguration(configuration, outputFile, installArea, false);
}

```

```

}

private void saveConfiguration(BundleInfo[] configuration, File outputFile, URI installArea, boolean backup)
throws IOException {
    if (backup && outputFile.exists()) {
        File backupFile = Utils.getSimpleDataFormattedFile(outputFile);
        if (!outputFile.renameTo(backupFile)) {
            throw new IOException("Fail to rename from (" + outputFile + ") to (" + backupFile + ")");
        }
    }
}

    org.eclipse.equinox.internal.simpleconfigurator.utils.BundleInfo[] simpleInfos = convertBundleInfos(configuration,
installArea);

    // if empty remove the configuration file
    if (simpleInfos == null || simpleInfos.length == 0) {
        if (outputFile.exists()) {
            outputFile.delete();
        }
        File parentDir = outputFile.getParentFile();
        if (parentDir.exists()) {
            parentDir.delete();
        }
        return;
    }
    SimpleConfiguratorManipulatorUtils.writeConfiguration(simpleInfos, outputFile);
}

private org.eclipse.equinox.internal.simpleconfigurator.utils.BundleInfo[] convertBundleInfos(BundleInfo[]
configuration, URI installArea) {
    // convert to SimpleConfigurator BundleInfo Type
    org.eclipse.equinox.internal.simpleconfigurator.utils.BundleInfo[] simpleInfos = new
org.eclipse.equinox.internal.simpleconfigurator.utils.BundleInfo[configuration.length];
    for (int i = 0; i < configuration.length; i++) {
        BundleInfo bundleInfo = configuration[i];
        URI location = bundleInfo.getLocation();
        if (bundleInfo.getSymbolicName() == null || bundleInfo.getVersion() == null || location == null)
            throw new IllegalArgumentException("Cannot persist bundleinfo: " + bundleInfo.toString());
        //only need to make a new BundleInfo if we are changing it.
        if (installArea != null)
            location = URIUtil.makeRelative(location, installArea);
        simpleInfos[i] = new
org.eclipse.equinox.internal.simpleconfigurator.utils.BundleInfo(bundleInfo.getSymbolicName(),
bundleInfo.getVersion(), location, bundleInfo.getStartLevel(), bundleInfo.isMarkedAsStarted());
        simpleInfos[i].setBaseLocation(bundleInfo.getBaseLocation());
    }
    return simpleInfos;
}

```

```

public BundleInfo[] save(Manipulator manipulator, boolean backup) throws IOException {
    List setToInitialConfig = new LinkedList();
    List setToSimpleConfig = new LinkedList();
    ConfigData configData = manipulator.getConfigData();

    if (!divideBundleInfos(manipulator, setToInitialConfig, setToSimpleConfig,
configData.getInitialBundleStartLevel()))
        return configData.getBundles();

    File outputFile = getConfigFile(manipulator);
    URI installArea =
ParserUtils.getOSGiInstallArea(Arrays.asList(manipulator.getLauncherData().getProgramArgs()),
manipulator.getConfigData().getProperties(), manipulator.getLauncherData().toURI());
    saveConfiguration((BundleInfo[]) setToSimpleConfig.toArray(new BundleInfo[setToSimpleConfig.size()]),
outputFile, installArea, backup);
    configData.setProperty(SimpleConfiguratorManipulatorImpl.PROP_KEY_CONFIGURL,
outputFile.toURL().toExternalForm());
    return orderingInitialConfig(setToInitialConfig);
}

void setPrerequisiteBundles(BundleInfo configuratorBundleInfo, BundlesState state, LocationInfo info) {
    if (state.isFullySupported())
        if (!this.checkResolve(configuratorBundleInfo, state)) {
            printoutUnsatisfiedConstraints(configuratorBundleInfo, state);
            return;
        }
    BundleInfo[] prerequisites = state.getPrerequisiteBundles(configuratorBundleInfo);
    info.prerequisiteLocations = new URI[prerequisites.length];
    for (int i = 0; i < prerequisites.length; i++)
        info.prerequisiteLocations[i] = prerequisites[i].getLocation();
    return;
}

void setSystemBundles(BundlesState state, LocationInfo info) {
    BundleInfo systemBundleInfo = state.getSystemBundle();
    if (systemBundleInfo == null) {
        // TODO Log
        //throw new IllegalStateException("There is no systemBundle.\n");
        return;
    }
    if (state.isFullySupported())
        if (!this.checkResolve(systemBundleInfo, state)) {
            printoutUnsatisfiedConstraints(systemBundleInfo, state);
            return;
        }
    info.systemBundleLocation = systemBundleInfo.getLocation();
}

```

```

BundleInfo[] fragments = state.getSystemFragmentedBundles();
info.systemFragmentedBundleLocations = new URI[fragments.length];
for (int i = 0; i < fragments.length; i++)
    info.systemFragmentedBundleLocations[i] = fragments[i].getLocation();
}

public void updateBundles(Manipulator manipulator) throws IOException {
    if (DEBUG)
        System.out.println("SimpleConfiguratorManipulatorImpl#updateBundles()"); //$NON-NLS-1$

    BundlesState bundleState = manipulator.getBundlesState();

    if (bundleState == null)
        return;
    if (bundleState.isFullySupported())
        bundleState.resolve(true);

    BundleInfo[] currentBInfos = bundleState.getExpectedState();
    if (!isTargetConfiguratorBundle(currentBInfos))
        return;
    Properties properties = new Properties();
    String[] jvmArgs = manipulator.getLauncherData().getJvmArgs();
    for (int i = 0; i < jvmArgs.length; i++) {
        if (jvmArgs[i].startsWith("-D")) { //$NON-NLS-1$
            int index = jvmArgs[i].indexOf("="); //$NON-NLS-1$
            if (index > 0 && jvmArgs[i].length() > 2) {
                String key = jvmArgs[i].substring(2, index);
                String value = jvmArgs[i].substring(index + 1);
                properties.setProperty(key, value);
            }
        }
    }

    Utils.appendProperties(properties, manipulator.getConfigData().getProperties());
    boolean exclusiveInstallation =
        Boolean.valueOf(properties.getProperty(SimpleConfiguratorManipulatorImpl.PROP_KEY_EXCLUSIVE_INSTALLATION)).booleanValue();
    File configFile = getConfigFile(manipulator);

    File installArea = ParserUtils.getOSGiInstallArea(Arrays.asList(manipulator.getLauncherData().getProgramArgs()),
        manipulator.getConfigData().getProperties(), manipulator.getLauncherData());
    BundleInfo[] toInstall = null;
    try {
        //input stream will be closed for us
        toInstall = loadConfiguration(new FileInputStream(configFile), installArea.toURI());
    } catch (FileNotFoundException e) {
        //no file, just return an empty list
        toInstall = new BundleInfo[0];
    }
}

```

```

    }

    List toUninstall = new LinkedList();
    if (exclusiveInstallation)
        for (int i = 0; i < currentBInfos.length; i++) {
            boolean install = false;
            for (int j = 0; j < toInstall.length; j++)
                if (currentBInfos[i].getLocation().equals(toInstall[j].getLocation())) {
                    install = true;
                    break;
                }
            if (!install)
                toUninstall.add(currentBInfos[i]);
        }

    for (int i = 0; i < toInstall.length; i++) {
        try {
            bundleState.installBundle(toInstall[i]);
        } catch (RuntimeException e) {
            //Ignore
        }
    }
    if (exclusiveInstallation)
        for (Iterator ite = toUninstall.iterator(); ite.hasNext();) {
            BundleInfo bInfo = (BundleInfo) ite.next();
            bundleState.uninstallBundle(bInfo);
        }

    bundleState.resolve(true);
    manipulator.getConfigData().setBundles(bundleState.getExpectedState());
}

public void cleanup(Manipulator manipulator) {
    File outputFile = getConfigFile(manipulator);
    outputFile.delete();

    if (outputFile.getParentFile().isDirectory())
        outputFile.getParentFile().delete();
}

/*****
 * Copyright (c) 2008, 2010 IBM Corporation and others. All rights reserved.
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors: IBM Corporation - initial API and implementation
 *****/

```

```

package org.eclipse.equinox.internal.simpleconfigurator.manipulator;

import java.io.*;
import java.net.URI;
import java.util.Arrays;
import java.util.Comparator;
import org.eclipse.equinox.internal.frameworkadmin.equinox.Messages;
import org.eclipse.equinox.internal.frameworkadmin.utils.Utils;
import org.eclipse.equinox.internal.simpleconfigurator.utils.BundleInfo;
import org.eclipse.equinox.internal.simpleconfigurator.utils.SimpleConfiguratorUtils;
import org.eclipse.equinox.simpleconfigurator.manipulator.SimpleConfiguratorManipulator;
import org.osgi.framework.Version;

public class SimpleConfiguratorManipulatorUtils {

    private static final String VERSION_PREFIX = "#version="; //$NON-NLS-1$
    private static final String VERSION_1 = "1"; //$NON-NLS-1$
    private static final Version OLD_STYLE_SIMPLE_CONFIGURATOR_VERSION = new
Version("1.0.100.v20081206"); //$NON-NLS-1$
    private static final Version DEFAULT_ENCODING_CONFIGURATOR_VERSION = new
Version("2.0.0.v20100329"); //$NON-NLS-1$

    public static void writeConfiguration(BundleInfo[] simpleInfos, File outputFile) throws IOException {
        if (!Utils.createParentDir(outputFile)) {
            throw new IllegalStateException(Messages.exception_failedToCreateDir);
        }

        IOException caughtException = null;
        OutputStream stream = null;
        try {
            stream = new FileOutputStream(outputFile);
            writeConfiguration(simpleInfos, stream);
        } catch (IOException e) {
            caughtException = e;
        } finally {
            try {
                if (stream != null)
                    stream.close();
            } catch (IOException e) {
                // we want to avoid over-writing the original exception
                if (caughtException != null)
                    caughtException = e;
            }
        }
        if (caughtException != null)
            throw caughtException;
    }
}

```



```

/**
 * The output stream is left open
 * @param simpleInfos
 * @param stream
 * @throws IOException
 */
public static void writeConfiguration(BundleInfo[] simpleInfos, OutputStream stream) throws IOException {
    // sort by symbolic name
    Arrays.sort(simpleInfos, new Comparator() {
        public int compare(Object o1, Object o2) {
            if (o1 instanceof BundleInfo && o2 instanceof BundleInfo) {
                return ((BundleInfo) o1).getSymbolicName().compareTo(((BundleInfo) o2).getSymbolicName());
            }
            return 0;
        }
    });

    BufferedWriter writer = null;
    boolean oldStyle = false;
    boolean utf8 = true;
    for (int i = 0; i < simpleInfos.length; i++) {
        if
        (SimpleConfiguratorManipulator.SERVICE_PROP_VALUE_CONFIGURATOR_SYMBOLICNAME.equals(simp
        leInfos[i].getSymbolicName())) {
            Version version = new Version(simpleInfos[i].getVersion());
            if (version.compareTo(OLD_STYLE_SIMPLE_CONFIGURATOR_VERSION) < 0)
                oldStyle = true;
            if (version.compareTo(DEFAULT_ENCODING_CONFIGURATOR_VERSION) <= 0)
                utf8 = false;
            break;
        }
    }

    if (utf8) {
        writer = new BufferedWriter(new OutputStreamWriter(stream, "UTF-8")); //$NON-NLS-1$
        //encoding is expected to be the first line
        writer.write(SimpleConfiguratorUtils.ENCODING_UTF8);
        writer.newLine();
    } else {
        writer = new BufferedWriter(new OutputStreamWriter(stream));
    }
    writer.write(createVersionLine());
    writer.newLine();

    // bundle info lines
    for (int i = 0; i < simpleInfos.length; i++) {
        writer.write(createBundleInfoLine(simpleInfos[i], oldStyle));
        writer.newLine();
    }
}

```

```

    }
    writer.flush();
}

public static String createVersionLine() {
    return VERSION_PREFIX + VERSION_1;
}

public static String createBundleInfoLine(BundleInfo bundleInfo, boolean oldStyle) {
    // symbolicName,version,location,startLevel,markedAsStarted
    StringBuffer buffer = new StringBuffer();
    buffer.append(bundleInfo.getSymbolicName());
    buffer.append(',');
    buffer.append(bundleInfo.getVersion());
    buffer.append(',');
    buffer.append(createBundleLocation(bundleInfo.getLocation(), oldStyle));
    buffer.append(',');
    buffer.append(bundleInfo.getStartLevel());
    buffer.append(',');
    buffer.append(bundleInfo.isMarkedAsStarted());
    return buffer.toString();
}

public static String createBundleLocation(Uri location, boolean oldStyle) {
    if (oldStyle) {
        String scheme = location.getScheme();
        if (scheme == null)
            scheme = "file"; //$NON-NLS-1$
        return scheme + ':' + location.getSchemeSpecificPart();
    }

    //encode comma characters because it is used as the segment delimiter in the bundle info file
    String result = location.toString();
    int commaIndex = result.indexOf(',');
    while (commaIndex != -1) {
        result = result.substring(0, commaIndex) + "%2C" + result.substring(commaIndex + 1); //$NON-NLS-1$
        commaIndex = result.indexOf(',');
    }
    return result;
}

}
/*****
* Copyright (c) 2008, 2010 IBM Corporation and others. All rights reserved.
* This program and the accompanying materials are made available under the
* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*

```

* Contributors: IBM Corporation - initial API and implementation

*****/

```
package org.eclipse.equinox.simpleconfigurator.manipulator;
```

```
import java.io.*;
```

```
import java.net.URI;
```

```
import org.eclipse.equinox.frameworkadmin.BundleInfo;
```

```
import org.osgi.framework.BundleContext;
```

```
/**
```

```
 * A ConfiguratorManipulator Service used to read and write bundles.info configuration files
```

```
 * @since 2.0
```

```
 * @noimplement This interface is not intended to be implemented by clients.
```

```
*/
```

```
public interface SimpleConfiguratorManipulator {
```

```
/**
```

```
 * A common location to find the bundle configuration file
```

```
*/
```

```
public static final String BUNDLES_INFO_PATH = "org.eclipse.equinox.simpleconfigurator/bundles.info";  
//$NON-NLS-1$
```

```
/**
```

```
 * A common location to find the source configuration file
```

```
*/
```

```
public static final String SOURCE_INFO_PATH = "org.eclipse.equinox.source/source.info"; //$NON-NLS-1$
```

```
/**
```

```
 * Pass this to { @link #loadConfiguration(BundleContext, String) } to read the default source configuration file
```

```
*/
```

```
public static final String SOURCE_INFO = new String("source.info"); //$NON-NLS-1$
```

```
/**
```

```
 * An instance of an ISimpleConfiguratorManipulator is registered as a ConfiguratorManipulator
```

```
 * service with
```

```
ConfiguratorManipulator.SERVICE_PROP_KEY_CONFIGURATOR_BUNDLESYMBOLICNAME =
```

```
 * SERVICE_PROP_VALUE_CONFIGURATOR_SYMBOLICNAME.
```

```
*/
```

```
public static final String SERVICE_PROP_VALUE_CONFIGURATOR_SYMBOLICNAME =  
"org.eclipse.equinox.simpleconfigurator"; //$NON-NLS-1$
```

```
/**
```

```
 * Load the configuration file for the currently running system.
```

```
 * <p>
```

```
 * Pass null for bundleInfoPath to read the bundle configuration file for the running system as
```

```
 * specified by the "org.eclipse.equinox.simpleconfigurator.configUrl" system property.
```

```
 * </p>
```

```
 * <p>If bundleInfoPath == { @link #SOURCE_INFO } the default source configuration file for the running
```

```

* system will be loaded.
* </p>
* @param context - the BundleContext for the running system
* @param bundleInfoPath - pass null or a path to the bundle info file to read, relative to the configuration location.
Pass { @link #SOURCE_INFO }
* to load the default source configuration. Common locations are { @link #BUNDLES_INFO_PATH } and { @link
#SOURCE_INFO_PATH }.
* @return The loaded configuration. Bundles will have at least symbolic name, version and location information.
* @throws IOException
*/
public BundleInfo[] loadConfiguration(BundleContext context, String bundleInfoPath) throws IOException;

/**
* Load the configuration from the given input stream
* The supplied input stream is consumed by this method and will be closed.
*
* @param configuration - the input stream to read the configuration from. The stream will be closed even if an
exception is thrown
* @param installArea - Relative URIs from the configuration file will be resolved relative to here
* @return The loaded configuration. Bundles will have at least symbolic name, version and location information.
* @throws IOException
*/
public BundleInfo[] loadConfiguration(InputStream configuration, URI installArea) throws IOException;

/**
* Save the configuration to the given output stream
* The output stream is flushed and left open.
* To be persisted, bundles are required to have at least a symbolic name, version and location.
*
* @param configuration - bundle information to save
* @param outputStream - the output stream to write to. Stream is not closed
* @param installArea - bundle locations are written as relative to this URI
* @throws IOException
*/
public void saveConfiguration(BundleInfo[] configuration, OutputStream outputStream, URI installArea) throws
IOException;

/**
* Save the configuration to the specified file
* To be persisted, bundles are required to have at least a symbolic name, version and location.
*
* @param configuration - bundle information to save
* @param configurationFile - file to save the configuration in
* @param installArea - bundle locations are written as relative to this URI
*
* @throws IOException
*/
public void saveConfiguration(BundleInfo[] configuration, File configurationFile, URI installArea) throws

```

```
IOException;  
}
```

1.552 org.eclipse.equinox.util

1.0.400.v20120522-2049

1.552.1 Available under license :

```
/*  
 * Copyright (c) 1997, 2008 by ProSyst Software GmbH  
 * http://www.prosyst.com  
 * All rights reserved. This program and the accompanying materials  
 * are made available under the terms of the Eclipse Public License v1.0  
 * which accompanies this distribution, and is available at  
 * http://www.eclipse.org/legal/epl-v10.html  
 *  
 * Contributors:  
 * ProSyst Software GmbH - initial API and implementation  
 */
```

```
package org.eclipse.equinox.internal.util.impl.tpt.threadpool;
```

```
import java.security.AccessControlContext;  
import java.security.AccessController;  
import org.eclipse.equinox.internal.util.UtilActivator;  
import org.eclipse.equinox.internal.util.impl.tpt.ServiceFactoryImpl;  
import org.eclipse.equinox.internal.util.ref.Log;  
import org.eclipse.equinox.internal.util.threadpool.ThreadPoolFactory;  
import org.eclipse.equinox.internal.util.threadpool.ThreadPoolManager;
```

```
/**  
 * @author Pavlin Dobrev  
 * @version 1.0  
 */
```

```
public class ThreadPoolFactoryImpl extends ServiceFactoryImpl implements ThreadPoolManager,  
ThreadPoolFactory {
```

```
    public static ThreadPoolManagerImpl threadPool;  
    private int limit;  
    private int used = 0;  
    private Job queue;  
    private static int defaultPercent;;
```

```
    public ThreadPoolFactoryImpl(String bundleName, Log log) {  
  
        super(bundleName, log);
```

```

threadPool = ThreadPoolManagerImpl.getThreadPool();
defaultPercent = UtilActivator.getInteger("equinox.util.threadpool.percent", 30);
limit = (ThreadPoolManagerImpl.tMaximum * defaultPercent) / 100;
if (limit == 0)
    limit = 1;
queue = new Job();
}

public ThreadPoolFactoryImpl(String bundleName, int size) {
    super(bundleName);
    limit = size;
    if (limit == 0)
        limit = 1;
    queue = new Job();
}

public ThreadPoolFactoryImpl(String bundleName) {
    this(bundleName, (ThreadPoolManagerImpl.tMaximum * defaultPercent) / 100);
}

public Object getInstance(String bundleName) {
    if (threadPool == null)
        throw new RuntimeException("ServiceFactory is currently off!");
    return new ThreadPoolFactoryImpl(bundleName);
}

public static void stopThreadPool() {
    ThreadPoolManagerImpl tmp = threadPool;
    threadPool = null;
    tmp.clear();
}

public ThreadPoolManager getThreadPool(int size, boolean sizeIsInPercents) {
    if (threadPool == null)
        throw new RuntimeException("[ThreadPool] ThreadPool is inaccessible");

    if (sizeIsInPercents) {
        size = (ThreadPoolManagerImpl.tMaximum * size) / 100;
    }
    if (size <= 0) {
        size = 1;
    }
    return new ThreadPoolFactoryImpl(bundleName, size);
}

public void execute(Runnable job, String name) {
    execute(job, Thread.NORM_PRIORITY, name);
}

```

```

public void execute0(Runnable job, int priority, String name, AccessControlContext acc) {
    if (job == null || name == null) {
        throw new IllegalArgumentException("the job or the name parameter is/are null");
    }

    if (ServiceFactoryImpl.useNames)
        name = name + bundleName;

    ThreadPoolManagerImpl tmp = threadPool;

    if (tmp != null) {
        synchronized (tmp.getSyncMonitor()) {
            if (used >= limit) {
                if (UtilActivator.LOG_DEBUG) {
                    UtilActivator.log.debug("In Bundle Queue: " + name + ", bundle queue size: " + queue.counter, null);
                }
                queue.addJob(job, name, priority, this, acc);

                return;
            }

            used++;
        }

        tmp.execute(job, priority, name, this, acc

    );
    } else
        throw new RuntimeException("[ThreadPool] ThreadPool is inaccessible");
}

public void execute(Runnable job, int priority, String name, AccessControlContext acc) {
    execute0(job, priority, name, acc

);
}

public void execute(Runnable job, int priority, String name) {
    execute0(job, priority, name, (Log.security() ? AccessController.getContext() : null));
}

public Executor getExecutor() {
    ThreadPoolManagerImpl tmp = threadPool;
    if (tmp != null) {
        synchronized (tmp.getSyncMonitor()) {
            if (used < limit) {
                Executor ex = tmp.getExecutor();

```

```

    if (ex != null)
        used++;
    return ex;
}
}
return null;
}

void finished() {
    Job job = queue.getJob();

    if (job != null) {
        if (UtilActivator.LOG_DEBUG) {
            UtilActivator.log.debug("To threadpool queue: " + job.name + ", queue size: " + threadPool.waiting.counter, null);
        }
        threadPool.waiting.addJob(job);
    } else {
        used--;
    }
}

public void reset() {
    if (threadPool != null) {
        threadPool.reset();
    }
}

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*   ProSyst Software GmbH - initial API and implementation
*****/

package org.eclipse.equinox.internal.util.impl.tpt.threadpool;

import java.security.*;
import org.eclipse.equinox.internal.util.UtilActivator;
import org.eclipse.equinox.internal.util.impl.tpt.ServiceFactoryImpl;
import org.eclipse.equinox.internal.util.pool.ObjectPool;
import org.eclipse.equinox.internal.util.timer.TimerListener;

```



```

/**
 * @author Pavlin Dobrev
 * @version 1.0
 */

public class ThreadPoolManagerImpl extends ObjectPool implements TimerListener, PrivilegedAction {

    static ThreadPoolManagerImpl threadPool = null;

    static ObjectPool jobPool;

    private int used = 0;
    static int tMaximum = 0;

    Job waiting = new Job();

    private static String pAutoMaximum = "equinox.util.threadpool.autoMaximum";

    private static String pMin = "equinox.util.threadpool.minThreads";

    private static String pMax = "equinox.util.threadpool.maxThreads";

    private static String pIgnoreMax = "equinox.util.threadpool.ignoreMaximum";

    private static int defMin = 1;

    private static int defMax = 48;

    private static int MAX_WAITING = 20;

    private static float MAX_OVERLOAD = 0.10F;

    private static boolean ignoreMax;
    private static boolean autoMax;

    private ThreadPoolManagerImpl(int i, int j, int m) {
        super((Class) null, i, j, m);
        tMaximum = i * j;
        ignoreMax = UtilActivator.getBoolean(pIgnoreMax);
        autoMax = UtilActivator.getBoolean(pAutoMaximum);
        jobPool = new ObjectPool(waiting, 5, 8, 4);
    }

    public static ThreadPoolManagerImpl getThreadPool() {
        if (threadPool == null) {
            int intSize = UtilActivator.getInteger(pMin, defMin);
            int minFill = intSize;
            int factor = UtilActivator.getInteger(pMax, defMax);

```

```

intSize = intSize < 2 ? 2 : intSize;
if (intSize > factor) {
    factor = (int) (intSize * 1.5 + 0.5);
}
threadPool = new ThreadPoolManagerImpl(intSize, (factor / intSize), minFill);
}
return threadPool;
}

public void clear() {
    shrink(-1);
    threadPool = null;
}

public Object getInstance() throws Exception {
    Object result = (ServiceFactoryImpl.privileged()) ? AccessController.doPrivileged(this) : new Executor();

    return result;
}

public Object run() {
    return new Executor();
}

public Object getObject() {
    try {
        return super.getObject();
    } catch (Throwable tw) {
        if (ServiceFactoryImpl.log != null) {
            ServiceFactoryImpl.log.error("Unable to create more threads!\r\nActive Thread Pool tasks: " + used, tw);
        }
    }
    return null;
}

public Executor getExecutor() {
    synchronized (getSyncMonitor()) {
        if (used < tMaximum || ignoreMax) {
            Executor e = (Executor) getObject();
            if (e != null) {
                used++;
                return e;
            }
        }
    }
    return null;
}

```

```

protected void shrink(int count) {
    synchronized (getSyncMonitor()) {
        dontExtend = true;
        int x, y;
        for (; nextFree > count; nextFree--) {
            x = nextFree / factor;
            y = nextFree % factor;
            Executor e = (Executor) buff[x][y];
            buff[x][y] = null;
            e.terminate();
        }
    }
}

public void shrink() {
    shrink(minimumFill - 1);
    dontExtend = false;
}

public boolean releaseObject(Object obj) {
    Job tmp = null;
    Executor x = (Executor) obj;

    synchronized (getSyncMonitor()) {
        x.factory.finished();

        if (used <= tMaximum || ignoreMax) {
            tmp = waiting.getJob();
        }
    }

    if (tmp == null) {
        used--;
        x.clear();
        x.setPriorityI(Thread.NORM_PRIORITY);
        return super.releaseObject(obj);
    }
    if (UtilActivator.LOG_DEBUG) {
        UtilActivator.log.debug(0x0100, 10005, tmp.name, null, false);
    }
    x.setPriorityI(tmp.priority);

    x.setRunnable(tmp.run, tmp.name, tmp.factory, tmp.acc);
    tmp.fullClear();
    jobPool.releaseObject(tmp);
    return true;
}

```

```

public void timer(int event) {
    int count = 0;
    int all = 0;
    synchronized (getSyncMonitor()) {
        for (int i = 0; i < buff.length; i++) {
            if (buff[i] != null) {
                for (int j = 0; j < buff[i].length; j++) {
                    Executor e = (Executor) buff[i][j];
                    if (e != null) {
                        all++;
                        if (!e.accessed)
                            count++;
                        else
                            e.accessed = false;
                    }
                }
            }
        }
    }
    if (count > 0 && all > minimumFill - 1 && all > count) {
        /*
         * keep in mind current thread - shrinking one more, since the
         * current thread will be back in pool
         */
        if (count > minimumFill)
            shrink(count - 2);
        else
            shrink(minimumFill - 2);
        dontExtend = false;
    }
}

public void execute(Runnable job, int priority, String name, ThreadPoolFactoryImpl factory, AccessControlContext
acc) {
    Executor ex = null;
    synchronized (getSyncMonitor()) {
        if (used < tMaximum || ignoreMax) {
            ex = (Executor) getObject();
        }
        if (ex != null) {
            used++;
        } else {
            addInTasksQueue(job, name, priority, factory, acc);
        }
    }
}

```

```

ex.setPriorityI(priority);
ex.setRunnable(job, name, factory, acc);
}

private void addInTasksQueue(Runnable job, String name, int priority, ThreadPoolFactoryImpl factory,
AccessControlContext acc) {

waiting.addJob(job, name, priority, factory, acc);
if (UtilActivator.LOG_DEBUG) {
UtilActivator.log.debug("In Threadpool Queue: " + name + ", queue size:" + waiting.counter, null);
}
if (autoMax && waiting.counter > MAX_WAITING) {
Executor ex = (Executor) getObject();
if (ex != null) {
tMaximum += MAX_WAITING;
MAX_WAITING += (int) (MAX_WAITING * MAX_OVERLOAD);
for (Job j = waiting.getJob(); j != null; j = waiting.getJob()) {
if (ex == null) {
ex = (Executor) getObject();
}
if (ex != null) {
used++;
ex.setPriorityI(j.priority);
ex.setRunnable(j.run, j.name, factory, acc);
ex = null;
} else {
waiting.addJob(j.run, j.name, j.priority, j.factory, acc);
break;
}
}
}
}
}

public void reset() {
shrink(-1);
dontExtend = false;
}

public Object getSyncMonitor() {
return buff;
}

}

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```

```

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*****/

```

```
package org.eclipse.equinox.internal.util.impl.tpt.timer;
```

```

import java.security.*;
import java.util.Hashtable;
import org.eclipse.equinox.internal.util.UtilActivator;
import org.eclipse.equinox.internal.util.impl.tpt.ServiceFactoryImpl;
import org.eclipse.equinox.internal.util.impl.tpt.threadpool.Executor;
import org.eclipse.equinox.internal.util.impl.tpt.threadpool.ThreadPoolFactoryImpl;
import org.eclipse.equinox.internal.util.pool.ObjectPool;
import org.eclipse.equinox.internal.util.ref.Log;
import org.eclipse.equinox.internal.util.timer.Timer;
import org.eclipse.equinox.internal.util.timer.TimerListener;

```

```

/**
 * @author Pavlin Dobrev
 * @version 1.0
 */

```

```
public class TimerImpl implements Runnable {
```

```

    static Hashtable nodes;
    static ObjectPool nodePool;

```

```

    static ThreadPoolFactoryImpl threadPool;

```

```

    private TimerQueue queue;
    private boolean terminated = false;
    private Object sync = new Object();
    private Thread th;

```

```

    public TimerImpl(ThreadPoolFactoryImpl threadPool) {
        nodePool = new ObjectPool(new TimerQueueNode(), 2, 4, 2);
        TimerImpl.threadPool = threadPool;
        nodes = new Hashtable(10);
        queue = new TimerQueue();
        try {
            th = ((ServiceFactoryImpl.privileged()) ? getOne() : new Thread(this, "[Timer] - Main Queue Handler"));
            try {
                String str = UtilActivator.bc.getProperty("equinox.timer.priority");
                if (str != null)

```

```

        th.setPriority(Integer.parseInt(str));
    } catch (Throwable ignored) {
    }
    th.start();
} catch (Exception e) {
    throw new RuntimeException("Can not start Timer thread!" + e.toString());
}
}

```

```

public void run() {
    TimerQueueNode n = null;
    while (!terminated) {
        synchronized (sync) {
            if (n == null && queue.isEmpty()) {
                try {
                    sync.wait();
                } catch (Exception e) {
                }
                // todo check if isEmpty is necessary
                if (queue.isEmpty() || terminated) {
                    continue;
                }
            }
        }
        synchronized (queue) {
            n = queue.getMin();
            while (n != null && !n.enabled) {
                queue.removeMin();
                n.returnInPool();
                n = queue.getMin();
            }
            if (n == null)
                continue;
            long current = System.currentTimeMillis();
            if (n.runOn <= current) {
                switch (n.type) {
                    case (Timer.ONE_SHOT_TIMER) : {
                        threadPool.execute0(n, n.priority, n.getEName(), n.acc);
                        queue.removeMin();
                        nodes.remove(n);
                        break;
                    }
                    case (Timer.ONE_SHOT_TIMER_NO_DELAY) : {
                        Executor e = threadPool.getExecutor();
                        if (e != null) {
                            e.setPriorityI(n.priority);
                            e.setRunnable(n, n.getEName(), threadPool, n.acc);
                        } else {

```

```

Thread th = new Thread(n, n.getEName());
th.setPriority(n.priority);
th.start();
}
queue.removeMin();
nodes.remove(n);
break;
}
case (Timer.PERIODICAL_TIMER) : {
threadPool.execute0(n, n.priority, n.getEName(), n.acc);
n.runOn += n.period;
if (n.runOn < current) { // time changed
n.runOn = current + n.period;
}
queue.rescheduleMin(n.runOn);
break;
}
case (Timer.PERIODICAL_TIMER_NO_DELAY) : {
Executor e = threadPool.getExecutor();
if (e != null) {
e.setPriority(n.priority);
e.setRunnable(n, n.getEName(), threadPool, n.acc);
} else {
Thread th = new Thread(n, n.getEName());
th.setPriority(n.priority);
th.start();
}
if (n.runOn < current) { // time changed
n.runOn = current + n.period;
}
queue.rescheduleMin(n.runOn);
}
}
continue;
}
}
synchronized (sync) {
long tmpWait;
if (n != null && (tmpWait = n.runOn - System.currentTimeMillis()) > 0) {
try {
sync.wait(tmpWait);
} catch (Exception e) {
e.printStackTrace();
}
TimerQueueNode tmp = null;
synchronized (queue) {
tmp = queue.getMin();
if (tmp != n) {

```



```

        n = tmp;
    }
}
/* what's this for - we'll continue in any case */
continue;
}
}
}
}
}
}
}
}
}

public void terminate() {
    terminated = true;
    synchronized (sync) {
        sync.notify();
    }
    try {
        th.join();
    } catch (InterruptedException ie) {
    }
}

private void put(TimerListener listener, int priority, int timerType, long periodMilis, int event, String name,
AccessControlContext acc) {
    if (terminated || nodePool == null) {
        throw new RuntimeException("This Instance is a ZOMBIE!!!" + terminated + " " + nodePool);
    }

    TimerQueueNode n = (TimerQueueNode) nodePool.getObject();
    n.setEvent(listener, priority, timerType, System.currentTimeMillis() + periodMilis, periodMilis, event, name, acc);
    TimerQueueNode tmp = (TimerQueueNode) nodes.remove(n);
    if (tmp != null) {
        synchronized (queue) {
            queue.removeTimerNode(tmp);
        }
        tmp.returnInPool();
    }
    nodes.put(n, n);
    TimerQueueNode nx;
    synchronized (queue) {
        queue.add(n);
        nx = queue.getMin();
    }
    if (nx == n) {

```

```

synchronized (sync) {
    sync.notifyAll();
}
}
}

void addNotifyListener(TimerListener listener, int priority, int timerType, long periodMilis, int event, String name)
{
    if (timerType < Timer.ONE_SHOT_TIMER || timerType > Timer.PERIODICAL_TIMER_NO_DELAY) {
        throw new IllegalArgumentException("Invalid Timer Type");
    }
    if (listener != null) {
        if (priority >= Thread.MIN_PRIORITY && priority <= Thread.MAX_PRIORITY) {
            if (periodMilis > 0) {
                AccessControlContext acc = Log.security() ? AccessController.getContext() : null;
                put(listener, priority, timerType, periodMilis, event, name, acc);
            } else {
                throw new IllegalArgumentException("Time period must be positive!");
            }
        } else {
            throw new IllegalArgumentException("Priority must be between Thread.MIN_PRIORITY and
Thread.MAX_PRIORITY!");
        }
    } else {
        throw new IllegalArgumentException("The timer listener is null");
    }
}

public void removeListener(TimerListener listener, int event) {
    TimerQueueNode rmTmp = (TimerQueueNode) nodePool.getObject();
    rmTmp.setEvent(listener, 0, 0, 0, 0, event, null, null);
    TimerQueueNode old = (TimerQueueNode) nodes.remove(rmTmp);
    if (old != null) {
        synchronized (queue) {
            queue.removeTimerNode(old);
        }
        old.returnInPool();
    }
    rmTmp.returnInPool();
}

private class PrivilegedActionImpl implements PrivilegedAction {
    private Runnable runnable = null;
    private boolean locked = false;
    private boolean waiting = false;

    PrivilegedActionImpl() {
    }
}

```

```

public synchronized void set(Runnable runnable) {
    while (locked) {
        waiting = true;
        try {
            wait();
        } catch (Exception _) {
        }
        waiting = false;
    }
    locked = true;
    this.runnable = runnable;
}

public Object run() {
    Runnable runnableLocal = null;
    synchronized (this) {
        runnableLocal = this.runnable;
        this.runnable = null;
        locked = false;
        if (waiting)
            notifyAll();
    }
    return new Thread(runnableLocal, "[Timer] - Main Queue Handler");
}

public Thread getOne() throws Exception {
    if (action == null)
        action = new PrivilegedActionImpl();
    action.set(this);
    return (Thread) AccessController.doPrivileged(action);
}

PrivilegedActionImpl action = null;
}
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*****/

```

```

package org.eclipse.equinox.internal.util.impl.tpt;

import org.eclipse.equinox.internal.util.UtilActivator;
import org.eclipse.equinox.internal.util.ref.Log;
import org.osgi.framework.*;

/**
 * @author Pavlin Dobrev
 * @version 1.0
 */

public abstract class ServiceFactoryImpl implements ServiceFactory {

    public String bundleName;
    public static Log log;

    private static Bundle systemBundle = null;
    static {
        try {
            systemBundle = UtilActivator.bc.getBundle(0);
        } catch (Exception e) {
        }
    }
    static boolean emptyStorage;

    private static boolean security = Log.security();

    public static boolean privileged() {
        emptyStorage = UtilActivator.bc.getProperty("equinox.storage.empty") != null;
        return ((systemBundle.getState() != Bundle.STARTING) || emptyStorage) && security;
    }

    public static boolean useNames = true;
    static String suseNames;

    public ServiceFactoryImpl(String bundleName, Log log) {
        this.bundleName = bundleName;
        ServiceFactoryImpl.log = log;

        String tmp = UtilActivator.bc.getProperty("equinox.util.threadpool.useNames");
        if (suseNames != tmp)
            useNames = tmp == null || !tmp.equals("false");
    }

    public ServiceFactoryImpl(String bundleName) {
        this.bundleName = bundleName;
    }
}

```

```

public Object getService(Bundle caller, ServiceRegistration sReg) {
    return getInstance(useNames ? getName(caller) : null);
}

public static String getName(Bundle caller) {
    StringBuffer bf = new StringBuffer(13);
    bf.append(" (Bundle ");
    bf.append(caller.getBundleId());
    bf.append(')');
    return bf.toString();
}

/**
 * Nothing to be done here.
 *
 * @param caller
 *      caller bundle, which releases the factory instance
 * @param sReg
 * @param service
 *      object that is released
 */
public void ungetService(Bundle caller, ServiceRegistration sReg, Object service) {
}

public abstract Object getInstance(String bundleName);
}

```

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1.553 org.eclipse.jgit 2.3.1.wso2v2

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1.554 org.eclipse.osgi 3.8.1.v20120830-144521

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* Based on the original MiniSat specification from:
*
* An extensible SAT solver. Niklas Een and Niklas Sorensson. Proceedings of the
* Sixth International Conference on Theory and Applications of Satisfiability
* Testing, LNCS 2919, pp 502-518, 2003.
*
* See www.minisat.se for the original solver in C++.
*
*****/
package org.sat4j.tools;

import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.PrintStream;

import org.sat4j.specs.IConstr;
import org.sat4j.specs.Lbool;
import org.sat4j.specs.SearchListener;

/**
 * @since 2.2
 */
public class ConflictLevelTracing implements SearchListener {

/**
 *
 */
private static final long serialVersionUID = 1L;

private final String filename;
private PrintStream out;

public ConflictLevelTracing(String filename) {
this.filename = filename;
updateWriter();
}

```

```
private void updateWriter() {
    try {
        out = new PrintStream(new FileOutputStream(filename + ".dat"));
    } catch (FileNotFoundException e) {
        out = System.out;
    }
}

public void adding(int p) {
    // TODO Auto-generated method stub

}

public void assuming(int p) {

}

public void backtracking(int p) {
    // TODO Auto-generated method stub

}

public void beginLoop() {
    // TODO Auto-generated method stub

}

public void conflictFound(IConstr confl, int dlevel, int trailLevel) {
    out.println(dlevel);
}

public void conflictFound(int p) {
    // TODO Auto-generated method stub

}

public void delete(int[] clause) {
    // TODO Auto-generated method stub

}

public void end(Lbool result) {
    out.close();
}

public void learn(IConstr c) {
    // TODO Auto-generated method stub
}
```

```

}

public void propagating(int p, IConstr reason) {
// TODO Auto-generated method stub

}

public void solutionFound() {
// TODO Auto-generated method stub

}

public void start() {

}

public void restarting() {
}

public void backjump(int backjumpLevel) {
}

}
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* Based on the original MiniSat specification from:
*
* An extensible SAT solver. Niklas Een and Niklas Sorensson. Proceedings of the
* Sixth International Conference on Theory and Applications of Satisfiability
* Testing, LNCS 2919, pp 502-518, 2003.
*
*/

```

* See www.minisat.se for the original solver in C++.

*

*****/

```
package org.sat4j.minisat.learning;
```

```
import org.sat4j.minisat.core.Constr;
import org.sat4j.minisat.core.DataStructureFactory;
import org.sat4j.minisat.core.ILits;
import org.sat4j.minisat.core.LearningStrategy;
import org.sat4j.minisat.core.Solver;
import org.sat4j.minisat.core.SolverStats;
import org.sat4j.minisat.core.VarActivityListener;
```

```
/**
```

```
 * Learn only clauses which size is smaller than a percentage of the number of
```

```
 * variables.
```

```
 *
```

```
 * @author leberre
```

```
 */
```

```
public abstract class LimitedLearning<D extends DataStructureFactory> implements LearningStrategy<D> {
```

```
    private static final long serialVersionUID = 1L;
```

```
    private final NoLearningButHeuristics<D> none;
```

```
    private final MiniSATLearning<D> all;
```

```
    protected ILits lits;
```

```
    private SolverStats stats;
```

```
    public LimitedLearning() {
        none = new NoLearningButHeuristics<D>();
        all = new MiniSATLearning<D>();
    }
```

```
    public void setSolver(Solver<D> s) {
        this.lits = s.getVocabulary();
        setVarActivityListener(s);
        all.setDataStructureFactory(s.getDSFactory());
        stats = s.getStats();
    }
```

```
    public void learns(Constr constr) {
        if (learningCondition(constr)) {
            all.learns(constr);
        } else {
            none.learns(constr);
        }
    }
```

```

        stats.ignoredclauses++;
    }
}

abstract protected boolean learningCondition(Constr constr);

public void init() {
    all.init();
    none.init();
}

public void setVarActivityListener(VarActivityListener s) {
    none.setVarActivityListener(s);
    all.setVarActivityListener(s);
}
}

```

1.560 org.sat4j.pb 2.3.0.v20110329

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```

```

package org.sat4j.pb.tools;

import java.util.Iterator;

import org.sat4j.core.Vec;
import org.sat4j.core.VecInt;
import org.sat4j.specs.ContradictionException;
import org.sat4j.specs.IConstr;

```

```

import org.sat4j.specs.IVec;
import org.sat4j.specs.IVecInt;

/**
 * That class is used to represent a conjunction of literals in the RHS of an
 * implication.
 *
 * @author daniel
 *
 * @param <T>
 * @param <C>
 */
public class ImplicationAnd<T, C> {
    private final DependencyHelper<T, C> helper;
    private final IVecInt clause;
    private final IVec<IConstr> toName = new Vec<IConstr>();

    public ImplicationAnd(DependencyHelper<T, C> helper, IVecInt clause) {
        this.clause = clause;
        this.helper = helper;
    }

    /**
     * Add a new positive literal to the conjunction of literals.
     *
     * @param thing
     *         a domain object
     * @return a RHS conjunction of literals.
     * @throws ContradictionException
     */
    public ImplicationAnd<T, C> and(T thing) throws ContradictionException {
        IVecInt tmpClause = new VecInt();
        clause.copyTo(tmpClause);
        tmpClause.push(helper.getIntValue(thing));
        IConstr constr = helper.solver.addClause(tmpClause);
        if (constr != null) {
            toName.push(constr);
        }
        return this;
    }

    /**
     * Add a new negative literal to the conjunction of literals.
     *
     * @param thing
     *         a domain object
     * @return a RHS conjunction of literals.
     * @throws ContradictionException
     */

```



```

*/
public ImplicationAnd<T, C> andNot(T thing) throws ContradictionException {
    IVecInt tmpClause = new VecInt();
    clause.copyTo(tmpClause);
    tmpClause.push(-helper.getIntValue(thing));
    IConstr constr = helper.solver.addClause(tmpClause);
    if (constr != null) {
        toName.push(constr);
    }
    return this;
}

/**
 * "name" the constraint for the explanation.
 *
 * IT IS MANDATORY TO NAME ALL THE CONSTRAINTS!
 *
 * @param name
 *     an object to link to the constraint.
 */
public void named(C name) {
    for (Iterator<IConstr> it = toName.iterator(); it.hasNext();) {
        helper.descs.put(it.next(), name);
    }
}

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 *****/

package org.sat4j.pb.tools;

import org.sat4j.core.Vec;

```

```

import org.sat4j.specs.ContradictionException;
import org.sat4j.specs.IConstr;
import org.sat4j.specs.IVec;
import org.sat4j.specs.IVecInt;

/**
 * That class represents the RHS of an implication.
 *
 * @author daniel
 *
 * @param <T>
 * @param <C>
 */
public class ImplicationRHS<T, C> {

    private final IVecInt clause;
    private final DependencyHelper<T, C> helper;

    private final IVec<IConstr> toName = new Vec<IConstr>();

    public ImplicationRHS(DependencyHelper<T, C> helper, IVecInt clause) {
        this.clause = clause;
        this.helper = helper;
    }

    /**
     * Build an implication with a conjunction of literals in the RHS.
     *
     * @param thing
     *         a domain object that will appear positively.
     * @return a RHS conjunction of literals.
     * @throws ContradictionException
     */
    public ImplicationAnd<T, C> implies(T thing) throws ContradictionException {
        ImplicationAnd<T, C> and = new ImplicationAnd<T, C>(helper, clause);
        and.and(thing);
        return and;
    }

    /**
     * Build an implication with a disjunction of literals in the RHS.
     *
     * @param thing
     *         a domain object
     * @return an object used to name the constraint. The constraint MUST BE
     *         NAMED.
     * @throws ContradictionException
     */

```

```

public ImplicationNamer<T, C> implies(T... things)
    throws ContradictionException {
    for (T t : things) {
        clause.push(helper.getIntValue(t));
    }
    toName.push(helper.solver.addClause(clause));
    return new ImplicationNamer<T, C>(helper, toName);
}

/**
 * Build an implication with a conjunction of literals in the RHS.
 *
 * @param thing
 *     a domain object that will appear negatively.
 * @return a RHS conjunction of literals.
 * @throws ContradictionException
 */
public ImplicationAnd<T, C> impliesNot(T thing)
    throws ContradictionException {
    ImplicationAnd<T, C> and = new ImplicationAnd<T, C>(helper, clause);
    and.andNot(thing);
    return and;
}

}

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 *****/

package org.sat4j.pb.tools;

import java.util.Iterator;

```

```

import org.sat4j.core.Vec;
import org.sat4j.specs.IConstr;
import org.sat4j.specs.IVec;

/**
 * That class is used to associate each constraint with another object that
 * must be used to represent it in an explanation.
 *
 * @author daniel
 *
 * @param <T>
 * @param <C>
 */
public class ImplicationNamer<T,C> {

    private final DependencyHelper<T,C> helper;
    private IVec<IConstr> toName = new Vec<IConstr>();

    public ImplicationNamer(DependencyHelper<T,C> helper, IVec<IConstr> toName) {
        this.toName = toName;
        this.helper = helper;
    }

    /**
     * Associate the current constraint with a specific object that
     * will be used to represent it in an explanation.
     * @param name
     */
    public void named(C name) {
        for (Iterator<IConstr> it = toName.iterator();it.hasNext();) {
            helper.descs.put(it.next(),name);
        }
    }
}

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 * Volume 24, Issue 3, March 2005 Page(s): 305 - 317
 *
 * and
 * Heidi E. Dixon, 2004. Automating Pseudo-Boolean Inference within a DPLL
 * Framework. Ph.D. Dissertation, University of Oregon.

*****/

```
package org.sat4j.pb.tools;
```

```
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.PrintStream;
```

```
import org.sat4j.pb.constraints.pb.PBConstr;
import org.sat4j.specs.IConstr;
import org.sat4j.specs.Lbool;
import org.sat4j.specs.SearchListener;
```

```
public class ConflictTracing implements SearchListener {
```

```
    private static final long serialVersionUID = 1L;
```

```
    private final String filename;
    private PrintStream out;
    private long index = 1;
```

```
    public ConflictTracing(String filename) {
        this.filename = filename;
        updateWriter();
    }
```

```
    private void updateWriter() {
        try {
            out = new PrintStream(new FileOutputStream(filename + ".dat"));
        } catch (FileNotFoundException e) {
            out = System.out;
        }
    }
```

```
    public void adding(int p) {
        // TODO Auto-generated method stub
```

```

}

public void assuming(int p) {
    // TODO Auto-generated method stub

}

public void backjump(int backjumpLevel) {
    // TODO Auto-generated method stub

}

public void backtracking(int p) {
    // TODO Auto-generated method stub

}

public void beginLoop() {
    // TODO Auto-generated method stub

}

public void conflictFound(IConstr confl, int dlevel, int trailLevel) {
    // TODO Auto-generated method stub

}

public void conflictFound(int p) {
    // TODO Auto-generated method stub

}

public void delete(int[] clause) {
    // TODO Auto-generated method stub

}

public void end(Lbool result) {
    out.close();
}

public void learn(IConstr c) {
    PBConstr myConstr = (PBConstr) c;
    if (myConstr.size() > 0) {
        out.printf("%d %d %d\n", index++, myConstr.getCoef(0), myConstr
            .size());
    }
}
}

```

```

public void propagating(int p, IConstr reason) {
    // TODO Auto-generated method stub

}

public void restarting() {
    // TODO Auto-generated method stub

}

public void solutionFound() {
    // TODO Auto-generated method stub

}

public void start() {
    // TODO Auto-generated method stub

}

}
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*
* and
* Heidi E. Dixon, 2004. Automating Pseudo-Boolean Inference within a DPLL
* Framework. Ph.D. Dissertation, University of Oregon.

```

```
*****/
```

```
package org.sat4j.pb.constraints.pb;
```

```
import java.math.BigInteger;
```

```
import org.sat4j.core.VecInt;
```

```
import org.sat4j.minisat.constraints.cnf.Lits;
```

```
import org.sat4j.minisat.core.ILits;
```

```
import org.sat4j.minisat.core.VarActivityListener;
```

```
import org.sat4j.specs.IteratorInt;
```

```
/**
```

```
 * @author parrain TODO To change the template for this generated type comment
```

```
 * go to Window - Preferences - Java - Code Style - Code Templates
```

```
*/
```

```
public class ConflictMap extends MapPb implements IConflict {
```

```
    private final ILits voc;
```

```
    protected boolean hasBeenReduced = false;
```

```
    protected long numberOfReductions = 0;
```

```
    /**
```

```
     * to store the slack of the current resolvent
```

```
    */
```

```
    protected BigInteger currentSlack;
```

```
    protected int currentLevel;
```

```
    /**
```

```
     * allows to access directly to all variables belonging to a particular
```

```
     * level At index 0, unassigned literals are stored (usually level -1); so
```

```
     * there is always a step between index and levels.
```

```
    */
```

```
    protected VecInt[] byLevel;
```

```
    /**
```

```
     * constructs the data structure needed to perform cutting planes
```

```
     *
```

```
     * @param cpb
```

```
     * pseudo-boolean constraint which rosed the conflict
```

```
     * @param level
```

```
     * current decision level
```

```
     * @return a conflict on which cutting plane can be performed.
```

```
    */
```

```
    public static IConflict createConflict(PBConstr cpb, int level) {
```

```
        return new ConflictMap(cpb, level);
```

```
    }
```



```

ConflictMap(PBConstr cpb, int level) {
    super(cpb);
    this.voc = cpb.getVocabulary();
    this.currentLevel = level;
    initStructures();
}

private void initStructures() {
    currentSlack = BigInteger.ZERO;
    byLevel = new VecInt[levelToIndex(currentLevel) + 1];
    int ilit, litLevel, index;
    BigInteger tmp;
    for (int i = 0; i < size(); i++) {
        ilit = weightedLits.getLit(i);
        litLevel = voc.getLevel(ilit);
        // eventually add to slack
        tmp = weightedLits.getCoef(i);
        if ((tmp.signum() > 0)
            && (((!voc.isFalsified(ilit)) || litLevel == currentLevel)))
            currentSlack = currentSlack.add(tmp);
        // add to byLevel structure
        index = levelToIndex(litLevel);
        if (byLevel[index] == null) {
            byLevel[index] = new VecInt();
        }
        byLevel[index].push(ilit);
    }
}

/**
 * convert level into an index in the byLevel structure
 *
 * @param level
 * @return
 */
private static final int levelToIndex(int level) {
    return level + 1;
}

/**
 * convert index in the byLevel structure into a level
 *
 * @param indLevel
 * @return
 */
private static final int indexToLevel(int indLevel) {
    return indLevel - 1;
}

```

```

}

/*
 * coefficient to be computed.
 */
protected BigInteger coefMult = BigInteger.ZERO;

protected BigInteger coefMultCons = BigInteger.ZERO;

/**
 * computes a cutting plane with a pseudo-boolean constraint. this method
 * updates the current instance (of ConflictMap).
 *
 * @param cpb
 *         constraint to compute with the cutting plane
 * @param litImplied
 *         literal that must be resolved by the cutting plane
 * @return an update of the degree of the current instance
 */
public BigInteger resolve(PBConstr cpb, int litImplied,
    VarActivityListener val) {
    assert litImplied > 1;
    int nLitImplied = litImplied ^ 1;
    if (cpb == null || !weightedLits.containsKey(nLitImplied)) {
        // no resolution
        // undo operation should be anticipated
        int litLevel = levelToIndex(voc.getLevel(litImplied));
        int lit = 0;
        if (byLevel[litLevel] != null) {
            if (byLevel[litLevel].contains(litImplied)) {
                lit = litImplied;
                assert weightedLits.containsKey(litImplied);
            } else if (byLevel[litLevel].contains(nLitImplied)) {
                lit = nLitImplied;
                assert weightedLits.containsKey(nLitImplied);
            }
        }
    }

    if (lit > 0) {
        byLevel[litLevel].remove(lit);
        if (byLevel[0] == null)
            byLevel[0] = new VecInt();
        byLevel[0].push(lit);
    }
    return degree;
}

assert slackConflict().signum() <= 0;

```

```

assert degree.signum() >= 0;

// coefficients of the constraint must be copied in an other structure
// in order to make reduction operations.
BigInteger[] coefsCons = null;
BigInteger degreeCons = cpb.getDegree();

// search of the index of the implied literal
int ind = 0;
while (cpb.get(ind) != litImplied)
    ind++;

assert cpb.get(ind) == litImplied;
assert cpb.getCoef(ind) != BigInteger.ZERO;

if (cpb.getCoef(ind).equals(BigInteger.ONE)) {
    // then we know that the resolvent will still be a conflict (cf.
    // Dixon's property)
    coefMultCons = weightedLits.get(nLitImplied);
    coefMult = BigInteger.ONE;
    // updating of the degree of the conflict
    degreeCons = degreeCons.multiply(coefMultCons);
} else {
    if (weightedLits.get(nLitImplied).equals(BigInteger.ONE)) {
        // then we know that the resolvent will still be a conflict (cf.
        // Dixon's property)
        coefMult = cpb.getCoef(ind);
        coefMultCons = BigInteger.ONE;
        // updating of the degree of the conflict
        degree = degree.multiply(coefMult);
    } else {
        // pb-constraint has to be reduced
        // to obtain a conflictual result from the cutting plane
        IWatchPb wpb = (IWatchPb) cpb; // DLB Findbugs warning ok
        coefsCons = wpb.getCoefs();
        assert positiveCoefs(coefsCons);
        degreeCons = reduceUntilConflict(litImplied, ind, coefsCons,
            wpb);
        // updating of the degree of the conflict
        degreeCons = degreeCons.multiply(coefMultCons);
        degree = degree.multiply(coefMult);
    }
}

// coefficients of the conflict must be multiplied by coefMult
if (!coefMult.equals(BigInteger.ONE))
    for (int i = 0; i < size(); i++) {
        changeCoef(i, weightedLits.getCoef(i).multiply(coefMult));
    }

```

```

}

assert slackConflict().signum() <= 0;

// cutting plane
degree = cuttingPlane(cpb, degreeCons, coefsCons, coefMultCons, val);

// neither litImplied nor nLitImplied is present in coefs structure
assert !weightedLits.containsKey(litImplied);
assert !weightedLits.containsKey(nLitImplied);
// neither litImplied nor nLitImplied is present in byLevel structure
assert getLevelByLevel(litImplied) == -1;
assert getLevelByLevel(nLitImplied) == -1;
assert degree.signum() > 0;
assert slackConflict().signum() <= 0;

// saturation
degree = saturation();
assert slackConflict().signum() <= 0;

return degree;
}

```

```

protected BigInteger reduceUntilConflict(int litImplied, int ind,
    BigInteger[] reducedCoefs, IWatchPb wpb) {
    BigInteger slackResolve = BigInteger.ONE.negate();
    BigInteger slackThis = BigInteger.ZERO;
    BigInteger slackIndex;
    BigInteger slackConflict = slackConflict();
    BigInteger ppcm;
    BigInteger reducedDegree = wpb.getDegree();
    BigInteger previousCoefLitImplied = BigInteger.ZERO;
    BigInteger tmp;
    BigInteger coefLitImplied = weightedLits.get(litImplied ^ 1);

    do {
        if (slackResolve.signum() >= 0) {
            assert slackThis.signum() > 0;
            tmp = reduceInConstraint(wpb, reducedCoefs, ind, reducedDegree);
            assert ((tmp.compareTo(reducedDegree) < 0) && (tmp
                .compareTo(BigInteger.ONE) >= 0));
            reducedDegree = tmp;
        }
        // search of the multiplying coefficients
        assert weightedLits.get(litImplied ^ 1).signum() > 0;
        assert reducedCoefs[ind].signum() > 0;

        if (!reducedCoefs[ind].equals(previousCoefLitImplied)) {

```

```

assert coefLitImplied.equals(weightedLits.get(litImplied ^ 1));
ppcm = ppcm(reducedCoefs[ind], coefLitImplied);
assert ppcm.signum() > 0;
coefMult = ppcm.divide(coefLitImplied);
coefMultCons = ppcm.divide(reducedCoefs[ind]);

assert coefMultCons.signum() > 0;
assert coefMult.signum() > 0;
assert coefMult.multiply(coefLitImplied).equals(
    coefMultCons.multiply(reducedCoefs[ind]));
previousCoefLitImplied = reducedCoefs[ind];
}

// slacks computed for each constraint
slackThis = wpb.slackConstraint(reducedCoefs, reducedDegree)
    .multiply(coefMultCons);
assert slackConflict.equals(slackConflict());
slackIndex = slackConflict.multiply(coefMult);
assert slackIndex.signum() <= 0;
// estimate of the slack after the cutting plane
slackResolve = slackThis.add(slackIndex);
} while (slackResolve.signum() >= 0);
assert coefMult.multiply(weightedLits.get(litImplied ^ 1)).equals(
    coefMultCons.multiply(reducedCoefs[ind]));
return reducedDegree;

}

/**
 * computes the slack of the current instance
 */
public BigInteger slackConflict() {
    BigInteger poss = BigInteger.ZERO;
    BigInteger tmp;
    // for each literal
    for (int i = 0; i < size(); i++) {
        tmp = weightedLits.getCoef(i);
        if (tmp.signum() != 0 && !voc.isFalsified(weightedLits.getLit(i))) {
            assert tmp.signum() > 0;
            poss = poss.add(tmp);
        }
    }
    // assert poss.subtract(degree).signum() >= 0;
    return poss.subtract(degree);
}

public boolean oldIsAssertive(int dl) {
    BigInteger tmp;

```

```

int lit;
BigInteger slack = computeSlack(dl).subtract(degree);
if (slack.signum() < 0)
    return false;
for (int i = 0; i < size(); i++) {
    tmp = weightedLits.getCoef(i);
    lit = weightedLits.getLit(i);
    if ((tmp.signum() > 0)
        && (voc.isUnassigned(lit) || voc.getLevel(lit) >= dl)
        && (slack.compareTo(tmp) < 0))
        return true;
}
return false;
}

// computes a slack with respect to a particular decision level
private BigInteger computeSlack(int dl) {
    BigInteger slack = BigInteger.ZERO;
    int lit;
    BigInteger tmp;
    for (int i = 0; i < size(); i++) {
        tmp = weightedLits.getCoef(i);
        lit = weightedLits.getLit(i);
        if ((tmp.signum() > 0)
            && (((!voc.isFalsified(lit)) || voc.getLevel(lit) >= dl)))
            slack = slack.add(tmp);
    }
    return slack;
}

/**
 * tests if the conflict is assertive (allows to imply a literal) at a
 * particular decision level
 *
 * @param dl
 *         the decision level
 * @return true if the conflict is assertive at the decision level
 */
public boolean isAssertive(int dl) {
    assert dl <= currentLevel;
    assert dl <= currentLevel;

    currentLevel = dl;
    // assert currentSlack.equals(computeSlack(dl));
    BigInteger slack = currentSlack.subtract(degree);
    if (slack.signum() < 0)
        return false;
    return isImplyingLiteral(slack);
}

```

```

}

// given the slack already computed, tests if a literal could be implied at
// a particular level
// uses the byLevel data structure to parse each literal by decision level
private boolean isImplyingLiteral(BigInteger slack) {
    // unassigned literals are tried first
    int unassigned = levelToIndex(-1);
    int lit;
    if (byLevel[unassigned] != null) {
        for (IteratorInt iterator = byLevel[unassigned].iterator(); iterator
            .hasNext();) {
            lit = iterator.next();
            if (slack.compareTo(weightedLits.get(lit)) < 0) {
                assertiveLiteral = weightedLits.allLits.get(lit);
                return true;
            }
        }
    }
    // then we have to look at every literal at a decision level >=dl
    BigInteger tmp;
    int level = levelToIndex(currentLevel);
    if (byLevel[level] != null)
        for (IteratorInt iterator = byLevel[level].iterator(); iterator
            .hasNext();) {
            lit = iterator.next();
            tmp = weightedLits.get(lit);
            if (tmp != null && slack.compareTo(tmp) < 0) {
                assertiveLiteral = weightedLits.allLits.get(lit);
                return true;
            }
        }
    return false;
}

// given the slack already computed, tests if a literal could be implied at
// a particular level
// uses the coefs data structure (where coefficients are decreasing ordered)
// to parse each literal
private boolean isImplyingLiteralOrdered(int dl, BigInteger slack) {
    int ilit, litLevel;
    for (int i = 0; i < size(); i++) {
        ilit = weightedLits.getLit(i);
        litLevel = voc.getLevel(ilit);
        if ((litLevel >= dl || voc.isUnassigned(ilit))
            && (slack.compareTo(weightedLits.getCoef(i)) < 0))
            return true;
    }
}

```

```

return false;
}

/**
 * computes the least common factor of two integers (Plus Petit Commun
 * Multiple in french)
 *
 * @param a
 *     first integer
 * @param b
 *     second integer
 * @return the least common factor
 */
protected static BigInteger ppcm(BigInteger a, BigInteger b) {
    return a.divide(a.gcd(b)).multiply(b);
}

/**
 * constraint reduction : removes a literal of the constraint. The literal
 * should be either unassigned or satisfied. The literal can not be the
 * literal that should be resolved.
 *
 * @param wpb
 *     the initial constraint to reduce
 * @param coefsBis
 *     the coefficients of the constraint wrt which the reduction
 *     will be proposed
 * @param indLitImplied
 *     index in wpb of the literal that should be resolved
 * @param degreeBis
 *     the degree of the constraint wrt which the reduction will be
 *     proposed
 * @return new degree of the reduced constraint
 */
public BigInteger reduceInConstraint(IWatchPb wpb,
    final BigInteger[] coefsBis, final int indLitImplied,
    final BigInteger degreeBis) {
    // logger.entering(this.getClass().getName(),"reduceInConstraint");
    assert degreeBis.compareTo(BigInteger.ONE) > 0;
    // search of an unassigned literal
    int lit = -1;
    for (int ind = 0; (ind < wpb.size()) && (lit == -1); ind++)
        if (coefsBis[ind].signum() != 0 && voc.isUnassigned(wpb.get(ind))) {
            assert coefsBis[ind].compareTo(degreeBis) < 0;
            lit = ind;
        }

    // else, search of a satisfied literal

```



```

if (lit == -1)
for (int ind = 0; (ind < wpb.size()) && (lit == -1); ind++)
if ((coefsBis[ind].signum() != 0)
&& (voc.isSatisfied(wpb.get(ind)))
&& (ind != indLitImplied))
lit = ind;

// a literal has been found
assert lit != -1;

assert lit != indLitImplied;
// logger.finer("Found literal "+Lits.toString(lits[lit]));
// reduction can be done
BigInteger degUpdate = degreeBis.subtract(coefsBis[lit]);
coefsBis[lit] = BigInteger.ZERO;

// saturation of the constraint
degUpdate = saturation(coefsBis, degUpdate);

assert coefsBis[indLitImplied].signum() > 0;
assert degreeBis.compareTo(degUpdate) > 0;
return degUpdate;
}

static BigInteger saturation(BigInteger[] coefs, BigInteger degree) {
assert degree.signum() > 0;
BigInteger minimum = degree;
for (int i = 0; i < coefs.length; i++) {
if (coefs[i].signum() > 0)
minimum = minimum.min(coefs[i]);
coefs[i] = degree.min(coefs[i]);
}
if (minimum.equals(degree) && !degree.equals(BigInteger.ONE)) {
// the result is a clause
// there is no more possible reduction
degree = BigInteger.ONE;
for (int i = 0; i < coefs.length; i++)
if (coefs[i].signum() > 0)
coefs[i] = degree;
}
return degree;
}

private static boolean positiveCoefs(final BigInteger[] coefsCons) {
for (int i = 0; i < coefsCons.length; i++) {
if (coefsCons[i].signum() <= 0)
return false;
}
}

```

```

return true;
}

/**
 * computes the level for the backtrack : the highest decision level for
 * which the conflict is assertive.
 *
 * @param maxLevel
 *     the lowest level for which the conflict is assertive
 * @return the highest level (smaller int) for which the constraint is
 *     assertive.
 */
public int getBacktrackLevel(int maxLevel) {
    // we are looking for a level higher than maxLevel
    // where the constraint is still assertive
    VecInt lits;
    int level;
    int indStop = levelToIndex(maxLevel) - 1;
    int indStart = levelToIndex(0);
    BigInteger slack = computeSlack(0).subtract(degree);
    int previous = 0;
    for (int indLevel = indStart; indLevel <= indStop; indLevel++) {
        if (byLevel[indLevel] != null) {
            level = indexToLevel(indLevel);
            assert computeSlack(level).subtract(degree).equals(slack);
            if (isImplyingLiteralOrdered(level, slack)) {
                break;
            }
        }
        // updating the new slack
        lits = byLevel[indLevel];
        int lit;
        for (IteratorInt iterator = lits.iterator(); iterator.hasNext();) {
            lit = iterator.next();
            if (voc.isFalsified(lit)
                && voc.getLevel(lit) == indexToLevel(indLevel))
                slack = slack.subtract(weightedLits.get(lit));
        }
        if (!lits.isEmpty())
            previous = level;
    }
    assert previous == oldGetBacktrackLevel(maxLevel);
    return previous;
}

public int oldGetBacktrackLevel(int maxLevel) {
    int litLevel;
    int borneMax = maxLevel;

```

```

assert oldIsAssertive(borneMax);
int borneMin = -1;
// borneMax is the highest level in the search tree where the constraint
// is assertive
for (int i = 0; i < size(); i++) {
    litLevel = voc.getLevel(weightedLits.getLit(i));
    if (litLevel < borneMax && litLevel > borneMin
        && oldIsAssertive(litLevel))
        borneMax = litLevel;
}
// the level returned is the first level below borneMax
// where there is a literal belonging to the constraint
int retour = 0;
for (int i = 0; i < size(); i++) {
    litLevel = voc.getLevel(weightedLits.getLit(i));
    if (litLevel > retour && litLevel < borneMax) {
        retour = litLevel;
    }
}
return retour;
}

```

```

public void updateSlack(int level) {
    int dl = levelToIndex(level);
    if (byLevel[dl] != null) {
        int lit;
        for (IteratorInt iterator = byLevel[dl].iterator(); iterator
            .hasNext();) {
            lit = iterator.next();
            if (voc.isFalsified(lit))
                currentSlack = currentSlack.add(weightedLits.get(lit));
        }
    }
}

```

```

@Override
void increaseCoef(int lit, BigInteger incCoef) {
    if ((!voc.isFalsified(lit)) || voc.getLevel(lit) == currentLevel) {
        currentSlack = currentSlack.add(incCoef);
    }
    assert byLevel[levelToIndex(voc.getLevel(lit))].contains(lit);
    super.increaseCoef(lit, incCoef);
}

```

```

@Override
void decreaseCoef(int lit, BigInteger decCoef) {
    if ((!voc.isFalsified(lit)) || voc.getLevel(lit) == currentLevel) {
        currentSlack = currentSlack.subtract(decCoef);
    }
}

```

```

    }
    assert byLevel[levelToIndex(voc.getLevel(lit))].contains(lit);
    super.decreaseCoef(lit, decCoef);
}

```

@Override

```

void setCoef(int lit, BigInteger newValue) {
    int litLevel = voc.getLevel(lit);
    if ((!voc.isFalsified(lit)) || litLevel == currentLevel) {
        if (weightedLits.containsKey(lit))
            currentSlack = currentSlack.subtract(weightedLits.get(lit));
        currentSlack = currentSlack.add(newValue);
    }
    int indLitLevel = levelToIndex(litLevel);
    if (!weightedLits.containsKey(lit)) {
        if (byLevel[indLitLevel] == null) {
            byLevel[indLitLevel] = new VecInt();
        }
        byLevel[indLitLevel].push(lit);
    }
    assert byLevel[indLitLevel] != null;
    assert byLevel[indLitLevel].contains(lit);
    super.setCoef(lit, newValue);
}

```

@Override

```

void changeCoef(int indLit, BigInteger newValue) {
    int lit = weightedLits.getLit(indLit);
    int litLevel = voc.getLevel(lit);
    if ((!voc.isFalsified(lit)) || litLevel == currentLevel) {
        if (weightedLits.containsKey(lit))
            currentSlack = currentSlack.subtract(weightedLits.get(lit));
        currentSlack = currentSlack.add(newValue);
    }
    int indLitLevel = levelToIndex(litLevel);
    assert weightedLits.containsKey(lit);
    assert byLevel[indLitLevel] != null;
    assert byLevel[indLitLevel].contains(lit);
    super.changeCoef(indLit, newValue);
}

```

@Override

```

void removeCoef(int lit) {
    int litLevel = voc.getLevel(lit);
    if ((!voc.isFalsified(lit)) || litLevel == currentLevel) {
        currentSlack = currentSlack.subtract(weightedLits.get(lit));
    }
}

```

```

int indLitLevel = levelToIndex(litLevel);
assert indLitLevel < byLevel.length;
assert byLevel[indLitLevel] != null;
assert byLevel[indLitLevel].contains(lit);
byLevel[indLitLevel].remove(lit);
super.removeCoef(lit);
}

private int getLevelByLevel(int lit) {
for (int i = 0; i < byLevel.length; i++)
if (byLevel[i] != null && byLevel[i].contains(lit))
return i;
return -1;
}

public boolean slackIsCorrect(int dl) {
return currentSlack.equals(computeSlack(dl));
}

@Override
public String toString() {
int lit;
StringBuffer stb = new StringBuffer();
for (int i = 0; i < size(); i++) {
lit = weightedLits.getLit(i);
stb.append(weightedLits.getCoef(i));
stb.append(".");
stb.append(Lits.toString(lit));
stb.append(" ");
stb.append("[");
stb.append(voc.valueToString(lit));
stb.append("@");
stb.append(voc.getLevel(lit));
stb.append("]");
}
return stb.toString() + " >= " + degree; //$NON-NLS-1$
}

public boolean hasBeenReduced() {
return hasBeenReduced;
}

public long getNumberOfReductions() {
return numberOfReductions;
}
}

```

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* Volume 24, Issue 3, March 2005 Page(s): 305 - 317

*

* and
* Heidi E. Dixon, 2004. Automating Pseudo-Boolean Inference within a DPLL
* Framework. Ph.D. Dissertation, University of Oregon.

*****/

```
package org.sat4j.pb.constraints.pb;
```

```
import java.math.BigInteger;
```

```
public final class ConflictMapMerging extends ConflictMap {
```

```
    public ConflictMapMerging(PBConstr cpb, int level) {  
        super(cpb, level);  
    }
```

```
    public static IConflict createConflict(PBConstr cpb, int level) {  
        return new ConflictMapMerging(cpb, level);  
    }
```

```
/**
```

```
 * reduces the constraint defined by wpb until the result of the cutting  
 * plane is a conflict. this reduction returns a PB constraint.
```

```
 *
```

```
 * @param litImplied
```

```
 * @param ind
```

```
 * @param reducedCoefs
```

```

* @param wpb
* @return the degree of the constraint
*/
@Override
protected BigInteger reduceUntilConflict(int litImplied, int ind,
    BigInteger[] reducedCoefs, IWatchPb wpb) {
    BigInteger tmp = reducedCoefs[ind].subtract(BigInteger.ONE);
    reducedCoefs[ind] = BigInteger.ONE;
    coefMultCons = weightedLits.get(litImplied ^ 1);
    coefMult = BigInteger.ONE;
    return saturation(reducedCoefs, wpb.getDegree().subtract(tmp));
}

}
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* and
* Heidi E. Dixon, 2004. Automating Pseudo-Boolean Inference within a DPLL
* Framework. Ph.D. Dissertation, University of Oregon.
*****/
package org.sat4j.pb.constraints.pb;

import java.math.BigInteger;

public final class ConflictMapClause extends ConflictMap {

    public ConflictMapClause(PBConstr cpb, int level) {

```

```

super(cpb, level);
}

public static IConflict createConflict(PBConstr cpb, int level) {
return new ConflictMapClause(cpb, level);
}

/**
 * reduces the constraint defined by wpb until the result of the cutting
 * plane is a conflict. this reduction returns a clause.
 *
 * @param litImplied
 * @param ind
 * @param reducedCoefs
 * @param wpb
 * @return BigInteger.ONE
 */
@Override
protected BigInteger reduceUntilConflict(int litImplied, int ind,
    BigInteger[] reducedCoefs, IWatchPb wpb) {
for (int i = 0; i < reducedCoefs.length; i++)
if (i == ind || wpb.getVocabulary().isFalsified(wpb.get(i)))
    reducedCoefs[i] = BigInteger.ONE;
else
    reducedCoefs[i] = BigInteger.ZERO;
coefMultCons = weightedLits.get(litImplied ^ 1);
coefMult = BigInteger.ONE;
return BigInteger.ONE;
}
}
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 *
 */

```


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 * and
 * Heidi E. Dixon, 2004. Automating Pseudo-Boolean Inference within a DPLL
 * Framework. Ph.D. Dissertation, University of Oregon.
 *****/
 package org.sat4j.pb.constraints.pb;

import java.math.BigInteger;

public final class ConflictMapSwitchToClause extends ConflictMap {

public static int UPPERBOUND;

public ConflictMapSwitchToClause(PBConstr cpb, int level) {
 super(cpb, level);
}

public static IConflict createConflict(PBConstr cpb, int level) {
 return new ConflictMapSwitchToClause(cpb, level);
}

/**

* reduces the constraint defined by wpb until the result of the cutting
 * plane is a conflict. this reduction returns either a clause if .

*

* @param litImplied

* @param ind

* @param reducedCoefs

* @param wpb

* @return BigInteger.ONE

*/

@Override

protected BigInteger reduceUntilConflict(int litImplied, int ind,
 BigInteger[] reducedCoefs, IWatchPb wpb) {
 BigInteger degreeCons = super.reduceUntilConflict(litImplied, ind,
 reducedCoefs, wpb);

// updating of the degree of the conflict

int i = 0;

for (; i < reducedCoefs.length

&& reducedCoefs[i].equals(BigInteger.ZERO) && i != ind; i++) {

}

if (i < reducedCoefs.length) {

BigInteger bigCoef = reducedCoefs[i].multiply(coefMultCons);

if (weightedLits.containsKey(wpb.get(i)))

```

bigCoef = bigCoef.add(weightedLits.get(wpb.get(i)).multiply(
    coefMult));
if (bigCoef.toString().length() > UPPERBOUND) {
    // if we deal with really big integers
    // reducing the constraint to a clause
    numberOfReductions++;
    hasBeenReduced = true;
    degreeCons = reduceToClause(ind, wpb, reducedCoefs);
    coefMultCons = weightedLits.get(litImplied ^ 1);
    coefMult = BigInteger.ONE;
}
}
return degreeCons;
}

private BigInteger reduceToClause(int ind, IWatchPb wpb,
    BigInteger[] reducedCoefs) {
    for (int i = 0; i < reducedCoefs.length; i++)
        if (i == ind || wpb.getVocabulary().isFalsified(wpb.get(i)))
            reducedCoefs[i] = BigInteger.ONE;
        else
            reducedCoefs[i] = BigInteger.ZERO;
    return BigInteger.ONE;
}

}
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* Volume 24, Issue 3, March 2005 Page(s): 305 - 317

```

```

*
* and
* Heidi E. Dixon, 2004. Automating Pseudo-Boolean Inference within a DPLL
* Framework. Ph.D. Dissertation, University of Oregon.
*****/
package org.sat4j.pb.constraints.pb;

public final class ConflictMapCardinality extends ConflictMap {

    public ConflictMapCardinality(PBConstr cpb, int level) {
        super(cpb, level);
        // TODO Auto-generated constructor stub
    }

}

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* Framework. Ph.D. Dissertation, University of Oregon.
*****/
package org.sat4j.pb.constraints.pb;

import java.math.BigInteger;

import org.sat4j.minisat.core.VarActivityListener;

```

```

public interface IConflict extends IDataStructurePB {

    /**
     * Effectue une resolution avec une contrainte PB. Met a jour le Conflict.
     *
     * @param cpb
     *     contrainte avec laquelle on va faire la resolution
     * @param litImplied
     *     litteral devant etre resolu
     * @param val
     *     TODO
     * @return la mise a jour du degre
     */
    BigInteger resolve(PBConstr cpb, int litImplied, VarActivityListener val);

    BigInteger slackConflict();

    boolean isAssertive(int dl);

    /**
     * Reduction d'une contrainte On supprime un litteral non assigne
     * prioritairement, vrai sinon. En aucun cas on ne supprime litImplied.
     *
     * @return mise a jour du degre
     */
    public BigInteger reduceInConstraint(IWatchPb wpb,
        final BigInteger[] coefsBis, final int indLitImplied,
        final BigInteger degreeBis);

    /**
     * retourne le niveau de backtrack : c'est-?-dire le niveau le plus haut
     * pour lequel la contrainte est assertive
     *
     * @param maxLevel
     *     le plus bas niveau pour lequel la contrainte est assertive
     * @return the highest level (smaller int) for which the constraint is
     *     assertive.
     */
    public int getBacktrackLevel(int maxLevel);

    public void updateSlack(int level);

    public boolean slackIsCorrect(int decisionLevel);

}
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 * Framework. Ph.D. Dissertation, University of Oregon.

*****/

package org.sat4j.pb.core;

import java.math.BigInteger;

import org.sat4j.minisat.core.IOrder;
 import org.sat4j.minisat.core.LearningStrategy;
 import org.sat4j.pb.constraints.pb.PBConstr;
 import org.sat4j.specs.ContradictionException;
 import org.sat4j.specs.IConstr;
 import org.sat4j.specs.IVec;
 import org.sat4j.specs.IVecInt;

public class PBSolverWithImpliedClause extends PBSolverCP {

public PBSolverWithImpliedClause(
 LearningStrategy<PBDataStructureFactory> learner,
 PBDataStructureFactory dsf, IOrder order) {
 super(learner, dsf, order);
 }
 }

/**
 *
 */

private static final long serialVersionUID = 1L;

```

@Override
public IConstr addPseudoBoolean(IVecInt literals, IVec<BigInteger> coeffs,
    boolean moreThan, BigInteger degree) throws ContradictionException {
    IVecInt vlits = dimacs2internal(literals);
    assert vlits.size() == literals.size();
    assert literals.size() == coeffs.size();
    PBConstr result = (PBConstr) dsfactory.createPseudoBooleanConstraint(
        vlits, coeffs, moreThan, degree);
    if (result != null) {
        IVecInt clits = result.computeAnImpliedClause();
        if (clits != null) {
            addConstr(dsfactory.createClause(clits));
        }
    }
    return addConstr(result);
}

@Override
public String toString(String prefix) {
    return super.toString(prefix) + "\n" + prefix
        + "Add implied clauses in preprocessing";
}
}

```

1.561 org.wso2.caching 4.0.3

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```

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 */
package org.wso2.caching;

```

```

import org.apache.axis2.clustering.ClusteringFault;
import org.apache.axis2.clustering.state.StateClusteringCommand;
import org.apache.axis2.context.ConfigurationContext;

import java.io.Serializable;
import java.util.ArrayList;
import java.util.List;

/**
 * Handles replication of the Cache. Handles both addition of new entries as well
 * as removal of entries
 */
public class CacheReplicationCommand extends StateClusteringCommand {

    private List<AddedCachedResponse> addedItems = new ArrayList<AddedCachedResponse>();
    private List<RemovedCachedResponse> removedItems = new ArrayList<RemovedCachedResponse>();

    public void addCachedReponse(ServiceName serviceName, RequestHash requestHash,
        CachableResponse response) {
        addedItems.add(new AddedCachedResponse(serviceName, requestHash, response));
    }

    public void removeCachedResponse(ServiceName serviceName, RequestHash requestHash) {
        removedItems.add(new RemovedCachedResponse(serviceName, requestHash));
    }

    @Override
    public void execute(ConfigurationContext configurationContext) throws ClusteringFault {
        CacheManager cacheManager =
            (CacheManager)
configurationContext.getPropertyNonReplicable(CachingConstants.CACHE_MANAGER);
        for (AddedCachedResponse addedItem : addedItems) {
            cacheManager.cacheResponse(addedItem.getServiceName(),
                addedItem.getRequestHash(),
                addedItem.getResponse());
        }
        for (RemovedCachedResponse removedItem : removedItems) {
            cacheManager.removeExpiredResponse(removedItem.getServiceName(),
                removedItem.getRequestHash());
        }
    }

    private static class RemovedCachedResponse implements Serializable {
        private ServiceName serviceName;
        private RequestHash requestHash;

        private RemovedCachedResponse(ServiceName serviceName, RequestHash requestHash) {
            this.serviceName = serviceName;
        }
    }
}

```

```

        this.requestHash = requestHash;
    }

    public ServiceName getServiceName() {
        return serviceName;
    }

    public RequestHash getRequestHash() {
        return requestHash;
    }
}

private static class AddedCachedResponse implements Serializable {
    private ServiceName    serviceName;
    private RequestHash    requestHash;
    private CachableView response;

    private AddedCachedResponse(ServiceName serviceName,
                                RequestHash requestHash,
                                CachableView response) {
        this.serviceName = serviceName;
        this.requestHash = requestHash;
        this.response = response;
    }

    public ServiceName getServiceName() {
        return serviceName;
    }

    public RequestHash getRequestHash() {
        return requestHash;
    }

    public CachableView getResponse() {
        return response;
    }
}

@Override
public String toString() {
    return "CacheReplicationCommand";
}
}
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 */

```
package org.wso2.caching.policy;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.neethi.All;
import org.apache.neethi.ExactlyOne;
import org.apache.neethi.Policy;
import org.apache.neethi.PolicyEngine;
import org.apache.neethi.builders.xml.XmlPrimitiveAssertion;
import org.apache.axis2.description.PolicySubject;
import org.wso2.caching.CacheConfiguration;
import org.wso2.caching.CachingConstants;
import org.wso2.caching.CachingException;
import org.wso2.caching.digest.DigestGenerator;
```

```
import javax.xml.namespace.QName;
import java.util.Iterator;
import java.util.List;
import java.util.Collection;
```

```
public class CachingPolicyProcessor {
```

```
/**
```

```
 * This will hold the log variable for the log4j appender
```

```
 */
```

```
private static Log log = LogFactory.getLog(CachingPolicyProcessor.class);
```

```
/**
```

```
 * This static method will be use to process the caching policy when the module is initialized
```

```
 * and get the CacheManager object initialized according to the policy
```

```
 *
```

```
 * @param policySubject- Policy object from the EffectivePolicy
```

```
 * @return CacheManager object initialized and returned
```

```
 * @throws org.wso2.caching.CachingException
```

```
 * - If an error occured in processing the policy
```

```
 * or if there is a problem in loading the DigestGenerator
```

```
 */
```

```

public static CacheConfiguration processCachingPolicy(PolicySubject policySubject) throws CachingException {

    if (policySubject.getAttachedPolicyComponents().size() != 0) {
        CacheConfiguration cacheConfig = new CacheConfiguration();
        Collection topLevelAssertionList = policySubject.getAttachedPolicyComponents();
        handlePolicyComponents(cacheConfig, topLevelAssertionList);
        return cacheConfig;
    } else {
        return null;
    }
}

private static void handlePolicyComponents(CacheConfiguration cacheConfig,
                                           Collection topLevelAssertionList)
    throws CachingException {
    for (Iterator topLevelAssertionsIterator
         = topLevelAssertionList.iterator(); topLevelAssertionsIterator.hasNext();) {

        Object topLevelAssertionObject = topLevelAssertionsIterator.next();

        if (topLevelAssertionObject instanceof Policy) {
            Policy policy = (Policy) topLevelAssertionObject;
            Collection policyComponents = policy.getPolicyComponents();
            handlePolicyComponents(cacheConfig, policyComponents);
        } else if (topLevelAssertionObject instanceof ExactlyOne) {
            ExactlyOne eo = (ExactlyOne) topLevelAssertionObject;
            handlePolicyComponents(cacheConfig, eo.getPolicyComponents());
        } else if (topLevelAssertionObject instanceof All) {
            All all = (All) topLevelAssertionObject;
            handlePolicyComponents(cacheConfig, all.getPolicyComponents());
        } else if (topLevelAssertionObject instanceof XmlPrimitiveAssertion) {
            // Validating the policy

            XmlPrimitiveAssertion topLevelXmlPrimitiveAssertion
                = (XmlPrimitiveAssertion) topLevelAssertionObject;
            QName qName = topLevelXmlPrimitiveAssertion.getName();
            // validating the Caching assertion
            if (qName.equals(CachingConstants.CACHING_ASSERTION_QNAME)) {

                Policy cachingPolicyComponent
                    = PolicyEngine.getPolicy(topLevelXmlPrimitiveAssertion.getValue());
                List assertionList = cachingPolicyComponent.getPolicyComponents();
                for (Iterator configDataAssertionIterator = assertionList.iterator();
                     configDataAssertionIterator.hasNext();) {

                    Object aConfigDataAssertionObject = configDataAssertionIterator.next();
                    // Validating the caching policy
                    if (aConfigDataAssertionObject instanceof Policy) {

```

```

long expireTime;
DigestGenerator digestGenerator;
int maxMessageSize;
int maxCacheSize;

Policy cachingPolicy = (Policy) aConfigDataAssertionObject;
List childAssertionsList = cachingPolicy.getPolicyComponents();
for (Iterator childAssertionSIterator = childAssertionsList
    .iterator(); childAssertionSIterator.hasNext();) {

    Object configData = childAssertionSIterator.next();
    if (configData instanceof All) {

        All all = (All) configData;
        List configDataList = all.getPolicyComponents();
        for (Iterator configIterator = configDataList
            .iterator(); configIterator.hasNext();) {

            Object configDtaObject = configIterator.next();
            if (configDtaObject instanceof XmlPrimitiveAssertion) {

                XmlPrimitiveAssertion cachingPrimitiveAssertion
                    = (XmlPrimitiveAssertion) configDtaObject;
                //todo : break the processing
                // Is Identifier specified?
                if (cachingPrimitiveAssertion.getName().equals(
                    CachingConstants.CACHING_XML_IDENTIFIER_QNAME)) {

                    String value
                        = cachingPrimitiveAssertion.getValue()
                            .getText();
                    try {

                        // Loading the class using Reflection
                        digestGenerator = (DigestGenerator)
                            Class.forName(value).newInstance();
                        cacheConfig.setDigestGenerator(digestGenerator);

                    } catch (ClassNotFoundException e) {

                        handleException("Unable to find the " +
                            "DigestGenerator implementation \"" +
                            value + "\"", e);

                    } catch (IllegalAccessException e) {

                        handleException("Unable to load the " +

```

```

        "DigestGenerator implementation \"" +
        value + "\"", e);

    } catch (InstantiationException e) {

        handleException("Unable to instantiate the " +
            "DigestGenerator implementation \"" +
            value + "\"", e);

    }
}

// Is expiration time specified?
if (cachingPrimitiveAssertion.getName().equals(
    CachingConstants.CACHE_EXPIRATION_TIME_QNAME) &&
    cachingPrimitiveAssertion.getValue() != null) {

    expireTime = Long.parseLong(
        cachingPrimitiveAssertion
            .getValue().getText());
    cacheConfig.setTimeout(expireTime);
}

// Is max message size specified?
if (cachingPrimitiveAssertion.getName().equals(
    CachingConstants.MAX_MESSAGE_SIZE_QNAME) &&
    cachingPrimitiveAssertion.getValue() != null) {

    maxMessageSize = Integer.parseInt(
        cachingPrimitiveAssertion
            .getValue().getText());
    cacheConfig.setMaxMessageSize(maxMessageSize);
}

// Is max cache size specified?
if (cachingPrimitiveAssertion.getName().equals(
    CachingConstants.MAX_CACHE_SIZE_QNAME) &&
    cachingPrimitiveAssertion.getValue() != null) {

    maxCacheSize = Integer.parseInt(
        cachingPrimitiveAssertion
            .getValue().getText());
    cacheConfig.setMaxCacheSize(maxCacheSize);
}

} else {
    // invalid caching policy
    handleException("Unexpected caching policy " +

```

```

        "assertion for the caching module");
    }
}
} else {
    // caching policy All not found
    handleException("Unexpected caching " +
        "policy, \"wsp:All\" expected");
}
}
} else {
    // handle policy
}
}
} else {
    // handle top level
}
}
}

/**
 * Private method to be used by the above static method for exception handling
 *
 * @param message - String message of the Exception
 * @param cause - Throwable cause of the exception
 * @throws CachingException with the provided message and cause
 */
private static void handleException(String message, Throwable cause) throws CachingException {

    if (log.isDebugEnabled()) {
        log.debug(message, cause);
    }
    throw new CachingException(message, cause);
}

/**
 * Private method to be used for the exception handling
 *
 * @param message - String message of the exception
 * @throws CachingException with the provided message
 */
private static void handleException(String message) throws CachingException {

    if (log.isDebugEnabled()) {
        log.debug(message);
    }
    throw new CachingException(message);
}
}

```

```

}
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 */

```

```
package org.wso2.caching.samples;
```

```

import org.apache.axis2.context.ConfigurationContext;
import org.apache.axis2.context.ConfigurationContextFactory;
import org.apache.axis2.description.TransportInDescription;
import org.apache.axis2.engine.ListenerManager;
import org.apache.axis2.util.CommandLineOption;
import org.apache.axis2.util.CommandLineOptionParser;
import org.apache.axis2.util.OptionsValidator;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

```

```

import java.io.File;
import java.util.List;
import java.util.Map;

```

```
public class SampleAxis2Server {
```

```
    private static final Log log = LogFactory.getLog(SampleAxis2Server.class);
```

```
    int port = -1;
```

```
    public static int DEFAULT_PORT = 9000;
```

```
/**
```

```
 * Expected system properties
```

```
 * http_port: Port to bind HTTP transport (default is 9000)
```

```
 * https_port: Port to bind HTTPS transport (default is 9002)
```

```
 * server_name: Name of this instance of the server (optional)
```

```
 *
```

```

* @param args 1: Axis2 repository
*           2: Axis2 configuration file (axis2.xml)
*
* @throws Exception
*/
public static void main(String[] args) throws Exception {
String repoLocation = null;
String confLocation = null;

CommandLineOptionParser optionsParser = new CommandLineOptionParser(args);
List invalidOptionsList = optionsParser.getInvalidOptions(new OptionsValidator() {
public boolean isValid(CommandLineOption option) {
String optionType = option.getOptionType();
return !("repo".equalsIgnoreCase(optionType) || "conf"
.equalsIgnoreCase(optionType));
}
});

if ((invalidOptionsList.size()>0)||args.length>4)
{
printUsage();
return;
}

Map optionsMap = optionsParser.getAllOptions();

CommandLineOption repoOption = (CommandLineOption) optionsMap
.get("repo");
CommandLineOption confOption = (CommandLineOption) optionsMap
.get("conf");

log.info("[SimpleAxisServer] Starting");
if (repoOption != null) {
repoLocation = repoOption.getOptionValue();
System.out.println("[SimpleAxisServer] Using the Axis2 Repository : "
+ new File(repoLocation).getAbsolutePath());
}
if (confOption != null) {
confLocation = confOption.getOptionValue();
System.out
.println("[SimpleAxisServer] Using the Axis2 Configuration File : "
+ new File(confLocation).getAbsolutePath());
}

try {
ConfigurationContext configctx = ConfigurationContextFactory
.createConfigurationContextFromFileSystem(repoLocation,
confLocation);

```

```

        configurePort(configctx);

        ListenerManager listenerManager = new ListenerManager();
        listenerManager.init(configctx);
        listenerManager.start();
        log.info("[SimpleAxisServer] Started");
    } catch (Throwable t) {
        log.fatal("[SimpleAxisServer] Shutting down. Error starting SimpleAxisServer", t);
    }
}

private static void configurePort(ConfigurationContext configCtx) {

    TransportInDescription trsIn = (TransportInDescription)
        configCtx.getAxisConfiguration().getTransportsIn().get("http");

    if(trsIn != null) {
        String port = System.getProperty("http_port");
        if(port != null) {
            try {
                new Integer(port);
                trsIn.getParameter("port").setValue(port);
            } catch (NumberFormatException e) {
                log.error("Given port is not a valid integer. Using 9000 for port.");
                trsIn.getParameter("port").setValue("9000");
            }
        } else {
            trsIn.getParameter("port").setValue("9000");
        }
    }

    TransportInDescription httpsTrsIn = (TransportInDescription)
        configCtx.getAxisConfiguration().getTransportsIn().get("https");

    if(httpsTrsIn != null) {
        String port = System.getProperty("https_port");
        if(port != null) {
            try {
                new Integer(port);
                httpsTrsIn.getParameter("port").setValue(port);
            } catch (NumberFormatException e) {
                log.error("Given port is not a valid integer. Using 9000 for port.");
                httpsTrsIn.getParameter("port").setValue("9002");
            }
        } else {
            httpsTrsIn.getParameter("port").setValue("9002");
        }
    }
}

```



```

    }
}

public static void printUsage() {
    System.out.println("Usage: SampleAxisServer -repo <repository> -conf <axis2 configuration file>");
    System.out.println();
    System.exit(1);
}
}

```

1.562

org.wso2.carbon.adc.repositoryinformation.service.stub 4.2.0

1.563 org.wso2.carbon.addressing 4.2.0

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1.564

org.wso2.carbon.apache.jasper.fragment

4.2.0

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1.565 org.wso2.carbon.application.deployer

4.2.0

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*/
package org.wso2.carbon.application.deployer.service;

import org.wso2.carbon.application.deployer.handler.AppDeploymentHandler;
import org.wso2.carbon.application.deployer.CarbonApplication;
import org.apache.axis2.engine.AxisConfiguration;

import java.util.ArrayList;
import java.util.HashMap;

/**
 * OSGi service interface for the Application Management
 */
public interface ApplicationManagerService {

    /**
     * All app deployers register their instances through this method
     *
     * @param handler - app deployer which implements the AppDeploymentHandler interface
     */
    void registerDeploymentHandler(AppDeploymentHandler handler);

    /**
     * Unregister the specified handler if it is already registered
     *
     * @param handler - input deployer handler
     */
    void unregisterDeploymentHandler(AppDeploymentHandler handler);

    /**
     * Deploy the provided carbon App..
     *
     * @param archPath - carbon app archive path
     * @param axisConfig - AxisConfiguration of the current tenant
     * @throws Exception - error on registry actions
     */
    void deployCarbonApp(String archPath, AxisConfiguration axisConfig) throws Exception;

    /**
     * Undeploy the provided carbon App..
     *
     * @param carbonApp - CarbonApplication instance
     * @param axisConfig - AxisConfiguration of the current tenant

```

```

*/
void undeployCarbonApp(CarbonApplication carbonApp, AxisConfiguration axisConfig);

/**
 * Returns all deployed carbon apps in the system
 *
 * @param tenantId - tenant id to find cApps
 * @return List of carbon apps
 */
ArrayList<CarbonApplication> getCarbonApps(String tenantId);

/**
 * Get the list of faulty CarbonApplications for the give tenant id. If the list is null,
 * return an empty Arraylist
 *
 * @param tenantId - tenant id to find faulty cApps
 * @return - list of tenant faulty cApps
 */
HashMap<String, Exception> getFaultyCarbonApps(String tenantId);

}
/*
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 */
package org.wso2.carbon.application.deployer.config;

import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.impl.builder.StAXOMBuilder;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.CarbonException;
import org.wso2.carbon.application.deployer.AppDeployerConstants;
import org.wso2.carbon.application.deployer.AppDeployerUtils;
import org.wso2.carbon.application.deployer.persistence.CarbonAppPersistenceManager;

```

```

import javax.xml.stream.XMLStreamException;
import java.io.*;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;

/**
 * This is the runtime representation of the entire app configuration.
 */
public class ApplicationConfiguration {

    private static final Log log = LogFactory.getLog(ApplicationConfiguration.class);

    public static final String ARTIFACTS_XML = "artifacts.xml";
    public static final String FEATURE_POSTFIX = ".feature.group";

    // TODO - define a correct ns
    public static final String APPLICATION_NS = "http://products.wso2.org/carbon";

    private String appName;
    private String appVersion;
    private Artifact applicationArtifact;

    /**
     * Constructor builds the cApp configuration by reading the artifacts.xml file from the
     * provided path.
     *
     * @param capm - persistence manager
     * @param appXmlPath - absolute path to artifacts.xml file
     * @throws CarbonException - error while reading artifacts.xml
     */
    public ApplicationConfiguration(CarbonAppPersistenceManager capm,
                                   String appXmlPath) throws CarbonException {
        File f = new File(appXmlPath);
        if (!f.exists()) {
            throw new CarbonException("artifacts.xml file not found at : " + appXmlPath);
        }
        InputStream xmlInputStream = null;
        try {
            xmlInputStream = new FileInputStream(f);
            buildConfiguration(capm, new StAXOMBuilder(xmlInputStream).getDocumentElement());
        } catch (FileNotFoundException e) {
            handleException("artifacts.xml File cannot be loaded from " + appXmlPath, e);
        } catch (XMLStreamException e) {
            handleException("Error while parsing the artifacts.xml file ", e);
        } finally {
            if (xmlInputStream != null) {

```

```

        try {
            xmlInputStream.close();
        } catch (IOException e) {
            log.error("Error while closing input stream.", e);
        }
    }
}

/**
 * Constructor builds the cApp configuration by reading the artifacts.xml file from the
 * provided xml input stream.
 *
 * @param capm - persistence manager
 * @param xmlInputStream - input stream of the artifacts.xml
 * @throws CarbonException - error while reading artifacts.xml
 */
public ApplicationConfiguration(CarbonAppPersistenceManager capm,
                               InputStream xmlInputStream) throws CarbonException {
    try {
        buildConfiguration(capm, new StAXOMBuilder(xmlInputStream).getDocumentElement());
    } catch (XMLStreamException e) {
        handleException("Error while parsing the artifacts.xml file content stream", e);
    }
}

public String getAppName() {
    return appName;
}

public String getAppVersion() {
    return appVersion;
}

public Artifact getApplicationArtifact() {
    return applicationArtifact;
}

public String getAppNameWithVersion() {
    if (getAppName() != null) {
        if (getAppVersion() != null) {
            return getAppName() + "_" + getAppVersion();
        } else {
            return getAppName();
        }
    } else {
        return null;
    }
}

```

```

}

/**
 * Builds the cApp configuration from the given OMElement which represents the artifacts.xml
 *
 * @param capm - persistence manager to read roles from the registry
 * @param documentElement - root OMElement
 * @throws CarbonException - error while building
 */
private void buildConfiguration(CarbonAppPersistenceManager capm,
                               OMElement documentElement) throws CarbonException {
    if (documentElement == null) {
        throw new CarbonException("Document element for artifacts.xml is null. Can't build " +
                                   "the cApp configuration");
    }

    Iterator artifactItr = documentElement.getChildrenWithLocalName(Artifact.ARTIFACT);
    Artifact appArtifact = null;
    while (artifactItr.hasNext()) {
        Artifact temp = AppDeployerUtils.populateArtifact((OMElement) artifactItr.next());
        if (AppDeployerConstants.CARBON_APP_TYPE.equals(temp.getType())) {
            appArtifact = temp;
            break;
        }
    }
    if (appArtifact == null) {
        throw new CarbonException("artifacts.xml is invalid. No Artifact " +
                                   "found with the type - " + AppDeployerConstants.CARBON_APP_TYPE);
    }
    this.appName = appArtifact.getName();
    this.appVersion = appArtifact.getVersion();

    String[] serverRoles = AppDeployerUtils.readServerRoles(capm);
    List<Artifact.Dependency> depsToRemove = new ArrayList<Artifact.Dependency>();

    /**
     * serverRoles contains regular expressions. So for each dependency's role, we have to
     * check whether there's a matching role from the list of serverRoles.
     */
    String role;
    for (Artifact.Dependency dep : appArtifact.getDependencies()) {
        boolean matched = false;
        role = dep.getServerRole();
        // try to find a matching serverRole for this dep
        for (String currentRole : serverRoles) {
            if (role.matches(currentRole)) {
                matched = true;
                break;
            }
        }
    }
}

```

```

    }
}

if (!matched) {
    depsToRemove.add(dep);
}
}

// removing unwanted dependencies for the current server
for (Artifact.Dependency item : depsToRemove) {
    appArtifact.removeDependency(item);
}
this.applicationArtifact = appArtifact;
}

private void handleException(String msg, Exception e) throws CarbonException {
    log.error(msg, e);
    throw new CarbonException(msg, e);
}

}
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 */
package org.wso2.carbon.application.deployer;

import org.wso2.carbon.application.deployer.config.ApplicationConfiguration;

import java.io.File;

public class CarbonApplication {

    public static final String P2_REPO = "p2-repo";

```



```

private String appName;
private String extractedPath;
private String appFilePath;
private String appVersion;
private boolean deploymentCompleted;

private ApplicationConfiguration appConfig;

public String getAppName() {
    return appName;
}

public void setAppName(String appName) {
    this.appName = appName;
}

public void setAppVersion(String appVersion){
    this.appVersion = appVersion;
}

public String getAppVersion(){
    return appVersion;
}

public String getAppNameWithVersion() {
    if (getAppName() != null) {
        if (getAppVersion() != null) {
            return getAppName() + "_" + getAppVersion();
        }else{
            return getAppName();
        }
    }else{
        return null;
    }
}

/**
 * Always retruns the path with a '/' at the end
 * @return - extracted path of the application
 */
public String getExtractedPath() {
    return extractedPath;
}

public void setExtractedPath(String extractedPath) {
    if (!extractedPath.endsWith(File.separator)) {
        extractedPath = extractedPath + File.separator;
    }
}

```

```

    }
    this.extractedPath = extractedPath;
}

public ApplicationConfiguration getAppConfig() {
    return appConfig;
}

public void setAppConfig(ApplicationConfiguration appConfig) {
    this.appConfig = appConfig;
}

public String getAppFilePath() {
    return appFilePath;
}

public void setAppFilePath(String appFilePath) {
    this.appFilePath = appFilePath;
}

public boolean isDeploymentCompleted() {
    return deploymentCompleted;
}

public void setDeploymentCompleted(boolean deploymentCompleted) {
    this.deploymentCompleted = deploymentCompleted;
}
}
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 */
package org.wso2.carbon.application.deployer.internal;

import org.apache.axiom.om.OMElement;

```

```

import org.apache.axiom.om.impl.builder.StAXOMBuilder;
import org.apache.axis2.deployment.DeploymentException;
import org.apache.axis2.engine.AxisConfiguration;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.osgi.framework.Bundle;
import org.osgi.framework.BundleContext;
import org.wso2.carbon.CarbonException;
import org.wso2.carbon.application.deployer.AppDeployerUtils;
import org.wso2.carbon.application.deployer.CarbonApplication;
import org.wso2.carbon.application.deployer.config.ApplicationConfiguration;
import org.wso2.carbon.application.deployer.config.Artifact;
import org.wso2.carbon.application.deployer.handler.AppDeploymentHandler;
import org.wso2.carbon.application.deployer.persistence.CarbonAppPersistenceManager;
import org.wso2.carbon.application.deployer.service.ApplicationManagerService;
import org.wso2.carbon.utils.CarbonUtils;
import org.wso2.carbon.utils.FileManipulator;

import javax.xml.stream.XMLStreamException;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.InputStream;
import java.util.ArrayList;
import java.util.Hashtable;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

/**
 * Manages all cApp deployment aspects. Carbon App deployment is done in two steps. A cApp is
 * basically a p2 repo which contains artifacts as features.
 *
 * Step 1 : Find out the artifacts to be installed in this server and install their features
 * through p2
 * Step 2 : After needed features are installed, complete the cApp deployment by sending the cApp
 * through a chain of handlers
 *
 * This handler chain can contain different cApp artifact deployers. Those can be registered or
 * unregistered using this ApplicationManager API.
 */
public final class ApplicationManager implements ApplicationManagerService {

    private static final Log log = LogFactory.getLog(ApplicationManager.class);

    private static ApplicationManager instance = new ApplicationManager();

```

```

private List<AppDeploymentHandler> appDeploymentHandlers;
private List<PendingApplication> pendingCarbonApps;

private Map<String, ArrayList<CarbonApplication>> tenantAppMap;
private Map<String, CarbonAppPersistenceManager> tenantPMMap;
private Map<String, HashMap<String, Exception>> tenantfaultycAppMap;

private int initialHandlers;
private int handlerCount;

//provisioning actions can't be performed paralelly.. this lock is used for those actions
// private final ReentrantLock lock = new ReentrantLock();

/**
 * Constructor initializes public instances and finds the initial handlers
 */
private ApplicationManager() {
    tenantAppMap = new ConcurrentHashMap<String, ArrayList<CarbonApplication>>();
    tenantPMMap = new ConcurrentHashMap<String, CarbonAppPersistenceManager>();
    tenantfaultycAppMap = new ConcurrentHashMap<String, HashMap<String, Exception>>();

    appDeploymentHandlers = new ArrayList<AppDeploymentHandler>();
    pendingCarbonApps = new ArrayList<PendingApplication>();

    // set the initial handler counter. default handler and registry handler are always there
    initialHandlers = 2 + findInitialHandlerCount();
}

/**
 * ApplicationManager is singleton. This can be used to access the instance.
 * @return - ApplicationManager instance
 */
public static ApplicationManager getInstance() {
    return instance;
}

/**
 * All app deployers register their deployers throgh this method
 * @param handler - app deployer which implements the AppDeploymentHandler interface
 */
public synchronized void registerDeploymentHandler(AppDeploymentHandler handler) {
    appDeploymentHandlers.add(handler);
    handlerCount++;

    if (handlerCount == initialHandlers) {
        //if we have cApps waiting to be deployed, deploy those as well
    }
}

```

```

    for (PendingApplication application : pendingCarbonApps) {
        try {
            this.deployCarbonApp(application.getPath(), application.getAxisConfig());
        } catch (Exception e) {
            log.error("Error while deploying stored cApp : " + application, e);
        }
    }
    pendingCarbonApps.clear();
}

/**
 * Unregister the specified handler if it is already registered
 * @param handler - input deployer handler
 */
public synchronized void unregisterDeploymentHandler(AppDeploymentHandler handler) {
    if (appDeploymentHandlers.contains(handler)) {
        appDeploymentHandlers.remove(handler);
    }
}

/**
 * Deploy a single app by iterating all handlers and sending apps through the handler
 * chain..
 * @param archPath - carbon app archive path
 * @param axisConfig - AxisConfiguration of the current tenant
 * @throws Exception - error on registry actions
 */
public synchronized void deployCarbonApp(String archPath, AxisConfiguration
    axisConfig) throws Exception {
    //if all handlers are not yet registered, we store the cApp to deploy later
    if (initialHandlers != handlerCount) {
        pendingCarbonApps.add(new PendingApplication(archPath, axisConfig));
        return;
    }

    CarbonAppPersistenceManager capm = getPersistenceManager(axisConfig);
    String tenantId = AppDeployerUtils.getTenantIdString(axisConfig);
    String archPathToProcess = AppDeployerUtils.formatPath(archPath);
    String fileName = archPathToProcess.substring(archPathToProcess.lastIndexOf('/') + 1);
    //check whether this app already exists..
    CarbonApplication existingApp = null;
    for (CarbonApplication carbonApp : getCarbonApps(tenantId)) {
        if (archPathToProcess.equals(carbonApp.getAppFilePath())) {
            existingApp = carbonApp;
            break;
        }
    }
}

```

```

//check whether this application file name already exists in faulty app list
for (String faultyAppPath : getFaultyCarbonApps(tenantId).keySet()) {
    if (archPathToProcess.equals(faultyAppPath)) {
        removeFaultyCarbonApp(tenantId,faultyAppPath);
        break;
    }
}

//If the app already exists, check the last updated time and redeploy if needed.
//Return if not updated..
if (existingApp != null) {
    File file = new File(archPathToProcess);
    if (file.exists()) {
        String hashValue = CarbonUtils.getMD5(CarbonUtils.getBytesFromFile(file));
        String hashValueFromRegistry = capm.getHashValue(existingApp.getAppNameWithVersion());
        if (hashValueFromRegistry != null && hashValueFromRegistry.equals(hashValue)) {
            existingApp.setDeploymentCompleted(true);
            return;
        } else {
            // we are going to do an update for the application
            log.warn("Carbon Application : " + fileName + " has been updated. Removing" +
                " the existing application and redeploying...");
            // undeploy the existing one before proceeding
            undeployCarbonApp(existingApp, axisConfig);
        }
    }
}

log.info("Deploying Carbon Application : " + fileName + "...");

CarbonApplication currentApp = new CarbonApplication();
try {
    currentApp.setAppFilePath(archPathToProcess);
    String extractedPath = AppDeployerUtils.extractCarbonApp(archPathToProcess);

    // Build the app configuration by providing the artifacts.xml path
    ApplicationConfiguration appConfig = new ApplicationConfiguration(capm, extractedPath +
        ApplicationConfiguration.ARTIFACTS_XML);

    // If we don't have features (artifacts) for this server, ignore
    if (appConfig.getApplicationArtifact().getDependencies().size() == 0) {
        log.warn("No artifacts found to be deployed in this server. " +
            "Ignoring Carbon Application : " + fileName);
        return;
    }

    currentApp.setExtractedPath(extractedPath);
    currentApp.setAppConfig(appConfig);
}

```

```

String appName = appConfig.getAppname();
if (appName == null) {
    log.warn("No application name found in Carbon Application : " + fileName + ". Using " +
        "the file name as the application name");
    appName = fileName.substring(0, fileName.lastIndexOf('.'));
}
// to support multiple cApp versions, we check app name with version
if (appExists(appConfig.getAppnameWithVersion(), axisConfig)) {
    String msg = "Carbon Application : " + appConfig.getAppnameWithVersion() + " already exists. Two
applications " +
        "can't have the same Id. Deployment aborted.";
    log.error(msg);
    throw new CarbonException(msg);
}

currentApp.setAppName(appName);
// Set App Version
String appVersion = appConfig.getAppVersion();
if (appVersion != null && !("").equals(appVersion)) {
    currentApp.setAppVersion(appVersion);
}

// lock.lock();
// try {
//     installArtifactFeatures(currentApp);
// } catch (Exception e) {
//     handleException("Failed to installed features for cApp : " + appName, e);
// } finally {
//     lock.unlock();
// }

// deploy sub artifacts of this cApp
this.searchArtifacts(currentApp.getExtractedPath(), currentApp);

// If all dependencies are resolved, we deploy the entire app
if (isArtifactReadyToDeploy(currentApp.getAppConfig().getApplicationArtifact())) {
    // send the CarbonApplication instance through the handler chain
    for (AppDeploymentHandler handler : appDeploymentHandlers) {
        handler.deployArtifacts(currentApp, axisConfig);
    }
} else {
    log.error("Some dependencies in cApp : " + appConfig.getAppnameWithVersion() + " were not satisfied.
Check " +
        "whether all dependent artifacts are included in cApp file : " +
        archPathToProcess);
    FileManipulator.deleteDir(currentApp.getExtractedPath());
}

```

```

        return;
    }

    currentApp.setDeploymentCompleted(true);
    this.addCarbonApp(tenantId, currentApp);
    log.info("Successfully Deployed Carbon Application : " + currentApp.getAppNameWithVersion() +
        AppDeployerUtils.getTenantIdLogString(AppDeployerUtils.
            getTenantId(axisConfig)));
} catch (DeploymentException e) {
    log.error("Error occurred while deploying Carbon Application", e);
    revertDeployedArtifacts(currentApp, axisConfig);
    removeFaultyService(currentApp, axisConfig);
    FileManipulator.deleteDir(currentApp.getExtractedPath());
    this.addFaultyCarbonApp(tenantId, archPathToProcess, e);
} catch (CarbonException e) {
    log.error("Error occurred while deploying Carbon Application", e);
    revertDeployedArtifacts(currentApp, axisConfig);
    removeFaultyService(currentApp, axisConfig);
    FileManipulator.deleteDir(currentApp.getExtractedPath());
    this.addFaultyCarbonApp(tenantId, archPathToProcess, e);
}
}

private void removeFaultyService(CarbonApplication currentApp, AxisConfiguration axisConfiguration) {
    // remove faulty services added by CApp
    Hashtable<String,String> faultyServices = axisConfiguration.getFaultyServices();
    for (String faultService : faultyServices.keySet()) {
        // check if the service is related to the current CApp
        if (faultService.contains(currentApp.getExtractedPath())) {
            axisConfiguration.getFaultyServices().remove(faultService);
        }
    }
}

/**
 * Revert the successfully deployed artifacts from this faulty CApp
 *
 * @param carbonApp - faulty CApp
 * @param axisConfig - currentAxisConfig
 */
private void revertDeployedArtifacts(CarbonApplication carbonApp,
    AxisConfiguration axisConfig) {
    log.info("Reverting successfully deployed artifacts in this CApp : "
        + carbonApp.getAppConfig().getAppNameWithVersion());
    for (AppDeploymentHandler handler : appDeploymentHandlers) {
        try {
            handler.undeployArtifacts(carbonApp, axisConfig);
        } catch (Exception ignore) {

```



```

    }
  }
}

/**
 * Deploys all artifacts under a root artifact..
 *
 * @param rootDirPath - root dir of the extracted artifact
 * @param parentApp - capp instance
 * @throws org.wso2.carbon.CarbonException - on error
 */
private void searchArtifacts(String rootDirPath,
                             CarbonApplication parentApp) throws CarbonException {
    File extractedDir = new File(rootDirPath);
    File[] allFiles = extractedDir.listFiles();
    if (allFiles == null) {
        return;
    }

    // list to keep all artifacts
    List<Artifact> allArtifacts = new ArrayList<Artifact>();

    // search for all directories under the extracted path
    for (File artifactDirectory : allFiles) {
        if (!artifactDirectory.isDirectory()) {
            continue;
        }

        String directoryPath = AppDeployerUtils.formatPath(artifactDirectory.getAbsolutePath());
        String artifactXmlPath = directoryPath + File.separator + Artifact.ARTIFACT_XML;

        File f = new File(artifactXmlPath);
        // if the artifact.xml not found, ignore this dir
        if (!f.exists()) {
            continue;
        }

        Artifact artifact = null;
        InputStream xmlInputStream = null;
        try {
            xmlInputStream = new FileInputStream(f);
            artifact = this.buildAppArtifact(parentApp, xmlInputStream);
        } catch (FileNotFoundException e) {
            handleException("artifacts.xml File cannot be loaded from " + artifactXmlPath, e);
        } finally {
            if (xmlInputStream != null) {
                try {
                    xmlInputStream.close();
                }
            }
        }
    }
}

```

```

        } catch (IOException e) {
            log.error("Error while closing input stream.", e);
        }
    }
}

if (artifact == null) {
    return;
}
artifact.setExtractedPath(directoryPath);
// searchArtifacts(directoryPath, parentApp);
allArtifacts.add(artifact);
}
Artifact appArtifact = parentApp.getAppConfig().getApplicationArtifact();
buildDependencyTree(appArtifact, allArtifacts);
}

/**
 * Builds the artifact from the given input steam and adds it as a dependency in the provided
 * parent carbon application.
 *
 * @param parentApp - parent application
 * @param artifactXmlStream - xml input stream of the artifact.xml
 * @return - Artifact instance if successfull. otherwise null..
 * @throws CarbonException - error while building
 */
public Artifact buildAppArtifact(CarbonApplication parentApp, InputStream artifactXmlStream)
    throws CarbonException {
    Artifact artifact = null;
    try {
        OMElement artElement = new StAXOMBuilder(artifactXmlStream).getDocumentElement();

        if (Artifact.ARTIFACT.equals(artElement.getLocalName())) {
            artifact = AppDeployerUtils.populateArtifact(artElement);
        } else {
            log.error("artifact.xml is invalid. Parent Application : "
                + parentApp.getAppFullNameWithVersion());
            return null;
        }
    } catch (XMLStreamException e) {
        handleException("Error while parsing the artifact.xml file ", e);
    }

    if (artifact == null || artifact.getName() == null) {
        log.error("Invalid artifact found in Carbon Application : " + parentApp.getAppFullNameWithVersion());
        return null;
    }
    return artifact;
}

```

```

}

/**
 * Undeploy the provided carbon App by sending it through the registered undeployment handler
 * chain..
 * @param carbonApp - CarbonApplication instance
 * @param axisConfig - AxisConfiguration of the current tenant
 */
public void undeployCarbonApp(CarbonApplication carbonApp,
                             AxisConfiguration axisConfig) {
    log.info("Undeploying Carbon Application : " + carbonApp.getAppnameWithVersion() + "...");
    // Call the undeployer handler chain
    try {
        for (AppDeploymentHandler handler : appDeploymentHandlers) {
            handler.undeployArtifacts(carbonApp, axisConfig);
        }
        // Remove the app from tenant cApp list
        removeCarbonApp(AppDeployerUtils.getTenantIdString(axisConfig), carbonApp);

        // Remove the app from registry

        CarbonAppPersistenceManager capm = getPersistenceManager(axisConfig);
        capm.deleteApplication(carbonApp.getAppnameWithVersion());
        // removing the extracted CApp form repository/carbonapps/work
        FileManipulator.deleteDir(carbonApp.getExtractedPath());
        log.info("Successfully Undeployed Carbon Application : " + carbonApp.getAppnameWithVersion()
                + AppDeployerUtils.getTenantIdLogString(AppDeployerUtils.getTenantId(axisConfig)));
    } catch (Exception e) {
        log.error("Error occured while trying unDeploy : " + carbonApp.getAppnameWithVersion());
    }
}

/**
 * Get the list of CarbonApplications for the give tenant id. If the list is null, return
 * an empty ArrayList
 *
 * @param tenantId - tenant id to find cApps
 * @return - list of tenant cApps
 */
public ArrayList<CarbonApplication> getCarbonApps(String tenantId) {
    ArrayList<CarbonApplication> cApps = tenantcAppMap.get(tenantId);
    if (cApps == null) {
        cApps = new ArrayList<CarbonApplication>();
    }
    return cApps;
}

```

```

/**
 * Get the list of faulty CarbonApplications for the give tenant id. If the list is null,
 * return an empty ArrayList
 *
 * @param tenantId - tenant id to find faulty cApps
 * @return - list of tenant faulty cApps
 */
public HashMap<String, Exception> getFaultyCarbonApps(String tenantId) {
    HashMap<String, Exception> cApps = tenantfaultycAppMap.get(tenantId);
    if (cApps == null) {
        cApps = new HashMap<String, Exception>();
    }
    return cApps;
}

/**
 * Add a new faulty cApp for a particular tenant. If there are no faulty cApps currently, create a new
 * ArrayList and add the new cApp.
 *
 * @param tenantId
 * @param carbonApp
 */
public void addFaultyCarbonApp(String tenantId, String carbonApp, Exception error) {
    HashMap<String, Exception> cApps;
    synchronized (tenantId.intern()) {
        cApps = tenantfaultycAppMap.get(tenantId);
        if (cApps == null) {
            cApps = new HashMap<String, Exception>();
            tenantfaultycAppMap.put(tenantId, cApps);
        }
    }
    // don't add the cApp if it already exists
    for (String cApp :cApps.keySet() ) {
        String appName = cApp;
        if (appName != null && appName.equals(carbonApp)) {
            return;
        }
    }
    cApps.put(carbonApp, error);
}

/**
 * Remove a faulty cApp for a particular tenant
 *
 * @param tenantId
 * @param appFilePath
 */
public void removeFaultyCarbonApp(String tenantId, String appFilePath) {
    HashMap<String, Exception> faultyApps = tenantfaultycAppMap.get(tenantId);

```

```

        synchronized (faultycApps) {
            if (faultycApps != null) {
                faultycApps.remove(appFilePath);
            }
        }
    }
}

/**
 * Add a new cApp for a particular tenant. If there are no cApps currently, create a new
 * ArrayList and add the new cApp.
 *
 * @param tenantId - tenant id of the cApp
 * @param carbonApp - CarbonApplication instance
 */
public void addCarbonApp(String tenantId, CarbonApplication carbonApp) {
    ArrayList<CarbonApplication> cApps;
    synchronized (tenantId.intern()) {
        cApps = tenantcAppMap.get(tenantId);
        if (cApps == null) {
            cApps = new ArrayList<CarbonApplication>();
            tenantcAppMap.put(tenantId, cApps);
        }
    }
    // don't add the cApp if it already exists
    for (CarbonApplication cApp : cApps) {
        String appNameWithVersion = cApp.getAppNameWithVersion();
        if (appNameWithVersion != null && appNameWithVersion.equals(carbonApp.getAppNameWithVersion()))
    {
        return;
    }
    }
    cApps.add(carbonApp);
}

/**
 * Remove a cApp for a particular tenant
 *
 * @param tenantId - tenant id of the cApp
 * @param carbonApp - CarbonApplication instance
 */
public void removeCarbonApp(String tenantId, CarbonApplication carbonApp) {
    ArrayList<CarbonApplication> cApps = tenantcAppMap.get(tenantId);
    synchronized (cApps) {
        if (cApps != null && cApps.contains(carbonApp)) {
            cApps.remove(carbonApp);
        }
    }
}

```

```

}

/**
 * Checks whether the given cApp artifact is complete with all it's dependencies. Recursively
 * checks all it's dependent artifacts as well..
 *
 * @param rootArtifact - artifact to check
 * @return true if ready, else false
 */
private boolean isArtifactReadyToDeploy(Artifact rootArtifact) {
    if (rootArtifact == null) {
        return false;
    }
    boolean isReady = true;
    for (Artifact.Dependency dep : rootArtifact.getDependencies()) {
        isReady = isArtifactReadyToDeploy(dep.getArtifact());
        if (!isReady) {
            return false;
        }
    }
    if (rootArtifact.unresolvedDepCount > 0) {
        isReady = false;
    }
    return isReady;
}

/**
 * If the given artifact is a dependent artifact for the rootArtifact, include it as
 * the actual dependency. The existing one is a dummy one. So remove it. Do this recursively
 * for the dependent artifacts as well..
 *
 * @param rootArtifact - root to start search
 * @param allArtifacts - all artifacts found under current cApp
 */
public void buildDependencyTree(Artifact rootArtifact, List<Artifact> allArtifacts) {
    for (Artifact.Dependency dep : rootArtifact.getDependencies()) {
        for (Artifact temp : allArtifacts) {
            if (dep.getName().equals(temp.getName())) {
                String depVersion = dep.getVersion();
                String attVersion = temp.getVersion();
                if ((depVersion == null && attVersion == null) ||
                    (depVersion != null && depVersion.equals(attVersion))) {
                    dep.setArtifact(temp);
                    rootArtifact.unresolvedDepCount--;
                    break;
                }
            }
        }
    }
}

```

```

        // if we've found the dependency, check for it's dependencies as well..
        if (dep.getArtifact() != null) {
            buildDependencyTree(dep.getArtifact(), allArtifacts);
        }
    }
}

/**
 * Returns the persistence manger for the given axis config (tenant). First try to find it
 * in the PM map. If it is not there, create a new one.
 *
 * @param axisConfig - AxisConfiguration of the current tenant
 * @return - CarbonAppPersistenceManager for the current tenant
 */
public CarbonAppPersistenceManager getPersistenceManager(AxisConfiguration axisConfig) {
    String tenantId = AppDeployerUtils.getTenantIdString(axisConfig);
    CarbonAppPersistenceManager capm = tenantPMMMap.get(tenantId);
    try {
        if (capm == null) {
            capm = new CarbonAppPersistenceManager(axisConfig);
            tenantPMMMap.put(tenantId, capm);
        }
    } catch (Exception e) {
        log.error("Error while initializing CAppPersistenceManger for tenant : " + tenantId, e);
    }
    return capm;
}

/**
 * Installs all artifact features in the given Application. Features are found in the p2-repo
 * which is inside the Carbon application.
 * 1. adding the repo
 * 2. convert feature id list to iu's
 * 3. review
 * 4. install
 *
 * @param carbonApp - application instance to perform on
 * @throws org.wso2.carbon.CarbonException - error on feature installation
 */
// private void installArtifactFeatures(CarbonApplication carbonApp) throws Exception {
//     List<ApplicationConfiguration.Feature> features = carbonApp.
//         getAppConfig().getFeaturesForCurrentServer();
//     if (features.size() == 0) {
//         return;
//     }
//     // add the repository
//     String repoPath = carbonApp.getExtractedPath() + CarbonApplication.P2_REPO;

```

```

//      repoPath = AppDeployerUtils.formatPath(repoPath);
//
//      if (repoPath.startsWith("/")) {
//          // on linux
//          repoPath = "file://" + repoPath;
//      } else {
//          // on windows
//          repoPath = "file:/// " + repoPath;
//      }
//      URI repoUrl = new URI(repoPath);
//      RepositoryUtils.addRepository(repoUrl, carbonApp.getAppName() +
//          System.currentTimeMillis());
//
//      IInstallableUnit[] units = new IInstallableUnit[features.size()];
//
//      for (int i = 0 ; i < features.size() ; i++) {
//          ApplicationConfiguration.Feature f = features.get(i);
//          InstallableUnitQuery query = new InstallableUnitQuery(f.getId(),
//              Version.create(f.getVersion()));
//
//          Collector collector = RepositoryUtils.getInstallableUnitsInRepositories(repoUrl,
//              query, new Collector(), null);
//          units[i] = getInstalledFeatureInfo(collector);
//      }
//      ProfileModificationAction profModificationAction =
//          ProfileModificationActionFactory.getProfileModificationAction(
//              ProfileModificationActionFactory.INSTALL_ACTION);
//      profModificationAction.setIusToInstall(units);
//
//      ResolutionResult rr = ProvisioningUtils
//          .reviewProvisioningAction(profModificationAction);
//      ProvisioningUtils.performProvisioningAction(rr, true);
//
//      RepositoryUtils.removeRepository(repoUrl);
//  }

/**
 * Uninstalls the given set of features from the system..
 *
 * @param features - features to uninstall
 * @throws org.wso2.carbon.CarbonException - error on uninstalling features
 */
//  private void removeExistingFeatures(List<ApplicationConfiguration.Feature> features)
//      throws Exception {
//      List<IInstallableUnit> featuresToRemove = new ArrayList<IInstallableUnit>();
//      for (ApplicationConfiguration.Feature f : features) {
//          QueryContext queryContext = new QueryContext();
//          queryContext.setQueryable(ProvisioningUtils.getProfile());

```



```

//     queryContext.setQuery(new InstallableUnitQuery(f.getId(),
//         Version.create(f.getVersion())));
//     InstalledIUQuery installedIUQuery = new InstalledIUQuery(queryContext);
//     IInstallableUnit[] installableUnits = ProvisioningUtils.
//         performIUQuery(installedIUQuery);
//     if(installableUnits != null && installableUnits.length > 0){
//         featuresToRemove.add(installableUnits[0]);
//     }
// }
//
// // if there are no feautres already installed, return
// if (featuresToRemove.size() == 0) {
//     return;
// }
//
// IInstallableUnit[] unitsToRemove = new IInstallableUnit[featuresToRemove.size()];
// unitsToRemove = featuresToRemove.toArray(unitsToRemove);
// ProfileModificationAction profModificationAction =
//     ProfileModificationActionFactory.getProfileModificationAction(
//         ProfileModificationActionFactory.UNINSTALL_ACTION);
// profModificationAction.setIusToUninstall(unitsToRemove);
// ResolutionResult rr = ProvisioningUtils
//     .reviewProvisioningAction(profModificationAction);
// ProvisioningUtils.performProvisioningAction(rr, true);
// }

// private IInstallableUnit getInstalledFeatureInfo(Collector collector) {
//     IInstallableUnit iu = null;
//     try {
//         IInstallableUnit[] installableUnits = (IInstallableUnit[])collector.
//             toArray(IInstallableUnit.class);
//         if(installableUnits == null || installableUnits.length == 0){
//             log.error("Error ocured while quering feature information");
//         }
//         if (installableUnits != null) {
//             iu = installableUnits[0];
//         }
//     } catch (Exception e) {
//         log.error("Error ocured while quering feature information", e);
//     }
//     return iu;
// }

/**
 * Finds the number of app deployers at the carbon startup
 * @return - number of app deployers
 */
private int findInitialHandlerCount() {

```

```

int handlers = 0;
BundleContext bc = AppDeployerServiceComponent.getBundleContext();
for (Bundle b : bc.getBundles()) {
    if (AppDeployerUtils.isAppDeployer(b)) {
        handlers++;
    }
}
return handlers;
}

/**
 * Check whether there is an already existing Carbon application with the given name.
 * Use app name with version to support multiple capp versions
 *
 * @param newAppNameWithVersion - name of the new app
 * @param axisConfig - AxisConfiguration instance
 * @return - true if exists
 */
private boolean appExists(String newAppNameWithVersion, AxisConfiguration axisConfig) {
    String tenantId = AppDeployerUtils.getTenantIdString(axisConfig);
    CarbonApplication appToRemove = null;
    for (CarbonApplication carbonApp : getCarbonApps(tenantId)) {
        if (newAppNameWithVersion.equals(carbonApp.getAppNameWithVersion())) {
            if (carbonApp.isDeploymentCompleted()) {
                return true;
            } else {
                appToRemove = carbonApp;
                break;
            }
        }
    }
    if (appToRemove != null) {
        undeployCarbonApp(appToRemove, axisConfig);
    }
    return false;
}

private void handleException(String msg, Exception e) throws CarbonException {
    log.error(msg, e);
    throw new CarbonException(msg, e);
}

/**
 * A private class to hold pending cApps to be deployed
 */
private final class PendingApplication {

    private String path;

```

```

private AxisConfiguration axisConfig;

private PendingApplication(String path, AxisConfiguration configCtx) {
    this.path = path;
    this.axisConfig = configCtx;
}

public String getPath() {
    return path;
}

public AxisConfiguration getAxisConfig() {
    return axisConfig;
}
}
}

```

1.566

org.wso2.carbon.application.deployer.synapse 4.2.2

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1.567 org.wso2.carbon.application.mgt 4.2.0

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*/

```
package org.wso2.carbon.application.mgt;
```

```
import org.apache.axis2.description.AxisService;  
import org.apache.axis2.description.AxisServiceGroup;  
import org.apache.axis2.description.Parameter;  
import org.apache.axis2.engine.AxisConfiguration;  
import org.apache.commons.logging.Log;  
import org.apache.commons.logging.LogFactory;  
import org.wso2.carbon.CarbonException;  
import org.wso2.carbon.application.deployer.AppDeployerConstants;  
import org.wso2.carbon.application.deployer.AppDeployerUtils;  
import org.wso2.carbon.application.deployer.CarbonApplication;  
import org.wso2.carbon.application.deployer.config.Artifact;  
import org.wso2.carbon.application.deployer.config.RegistryConfig;  
import org.wso2.carbon.application.deployer.handler.DefaultAppDeployer;  
import org.wso2.carbon.application.deployer.handler.RegistryResourceDeployer;  
import org.wso2.carbon.application.deployer.persistence.CarbonAppPersistenceManager;  
import org.wso2.carbon.application.mgt.internal.AppManagementServiceComponent;  
import org.wso2.carbon.core.AbstractAdmin;  
import org.wso2.carbon.core.util.SystemFilter;  
import org.wso2.carbon.utils.ServerConstants;
```

```
import javax.activation.DataHandler;  
import javax.activation.FileDataSource;  
import java.io.File;  
import java.io.PrintWriter;  
import java.io.StringWriter;  
import java.util.*;
```

```
public class ApplicationAdmin extends AbstractAdmin {  
  
    private static final Log log = LogFactory.getLog(ApplicationAdmin.class);  
  
    /**  
     * Give the names of all applications in the system  
     * @return - names array  
     * @throws Exception - error on getting carbon app service  
     */  
    public String[] listAllApplications() throws Exception {
```



```

String tenantId = AppDeployerUtils.getTenantIdString(getAxisConfig());
ArrayList<CarbonApplication> appList
    = AppManagementServiceComponent.getAppManager().getCarbonApps(tenantId);
List<String> existingApps = new ArrayList<String>();
CarbonApplication tempApp;
for (CarbonApplication anAppList : appList) {
    tempApp = anAppList;
    if (tempApp.isDeploymentCompleted()) {
        existingApps.add(tempApp.getAppNameWithVersion());
    }
}
return existingApps.toArray(new String[existingApps.size()]);
}

/**
 * Give the names of all faulty applications in the system
 * @return - names array
 * @throws Exception - error on getting carbon app service
 */
public String[] listAllFaultyApplications() throws Exception {

    String tenantId = AppDeployerUtils.getTenantIdString(getAxisConfig());
    HashMap<String, Exception> faultyCarbonApps
        = AppManagementServiceComponent.getAppManager().getFaultyCarbonApps(tenantId);
    String fileName = null;
    List<String> existingFaultyApps = new ArrayList<String>();

    for (String anAppList : faultyCarbonApps.keySet()) {
        fileName = anAppList.substring(anAppList.lastIndexOf('/') + 1);
        existingFaultyApps.add(fileName);
    }
    return existingFaultyApps.toArray(new String[existingFaultyApps.size()]);
}

/**
 * Gives Fault Reason of the given Faulty Carbon Application
 *
 * @param faultCarbonAppName - name of the faulty Application
 * @throws Exception - error on getting carbon app service
 */
public String getFaultException(String faultCarbonAppName) throws Exception {
    String tenantId = AppDeployerUtils.getTenantIdString(getAxisConfig());
    HashMap<String, Exception> appList
        = AppManagementServiceComponent.getAppManager().getFaultyCarbonApps(tenantId);

    String faultException = null;

```

```

String fileName = null;
for (String anAppList : appList.keySet()) {
    fileName = anAppList.substring(anAppList.lastIndexOf('/') + 1);

    if(faultCarbonAppName .equals(fileName)){
        Exception e = appList.get(anAppList);
        StringWriter errors = new StringWriter();
        e.printStackTrace(new PrintWriter(errors));
        faultException = errors.toString();
        break;
    }
}
return faultException;

}

/**
 * Deletes an entire application by deleting all its artifacts
 *
 * @param appName - name of the Application to be deleted
 * @throws Exception - invalid scenarios
 */
public void deleteApplication(String appName) throws Exception {
    // If appName is null throw an exception
    if (appName == null) {
        handleException("Application name can't be null");
        return;
    }

    // CarbonApplication instance to delete
    CarbonApplication currentApp = null;

    // Iterate all applications for this tenant and find the application to delete
    String tenantId = AppDeployerUtils.getTenantIdString(getAxisConfig());
    ArrayList<CarbonApplication> appList =
        AppManagementServiceComponent.getAppManager().getCarbonApps(tenantId);
    for (CarbonApplication carbonApp : appList) {
        if (appName.equals(carbonApp.getAppName()) || appName.equals(carbonApp.getAppNameWithVersion()))
        {
            currentApp = carbonApp;
        }
    }

    // If requested application not found, throw an exception
    if (currentApp == null) {
        handleException("No Carbon Application found of the name : " + appName);
        return;
    }
}

```

```

    }

    // Remove the app artifact file from repository, cApp hot undeployer will do the rest
    String appFilePath = currentApp.getAppFilePath();
    File file = new File(appFilePath);
    if (file.exists() && !file.delete()) {
        log.error("Artifact file couldn't be deleted for Application : "
            + currentApp.getAppFullName());
    }
}
/**
 * Deletes an entire application by deleting all its artifacts
 *
 * @param faultyAppName - name of the Application to be deleted
 * @throws Exception - error on getting carbon app service
 */
public void deleteFaultyApplication(String[] faultyAppName) throws Exception {
    String tenantId = AppDeployerUtils.getTenantIdString(getAxisConfig());
    HashMap<String, Exception> faultyCarbonAppList =
        AppManagementServiceComponent.getAppManager().getFaultyCarbonApps(tenantId);
    for(String faultyCarbonApplication : faultyAppName){
// If appName is null throw an exception
        if (faultyCarbonApplication == null) {
            handleException("Application name can't be null");
            return;
        }
// CarbonApplication instance to delete
        String currentApp=null;
        String filename =null;

// Iterate all applications for this tenant and find the application to delete
        for (String carbonApp : faultyCarbonAppList.keySet()) {

            filename = carbonApp.substring(carbonApp.lastIndexOf('/') + 1);
            if (faultyCarbonApplication .equals(filename)) {
                currentApp = carbonApp;
                faultyCarbonAppList.remove(currentApp);
                break;
            }
        }

// If requested application not found, throw an exception
        if (currentApp == null) {
            handleException("No Carbon Application found of the name : " + faultyCarbonApplication );
            return;
        }

// Remove the app artifact file from repository, cApp hot undeployer will do the rest

```

```

        String appFilePath = currentApp;
        File file = new File(appFilePath);
        if (file.exists() && !file.delete()) {
            log.error("Artifact file couldn't be deleted for Application : "
                + filename);
        }
    }
}

public void deleteAllFaultyApplications() throws Exception{
    String tenantId = AppDeployerUtils.getTenantIdString(getAxisConfig());
    HashMap<String, Exception> faultyCarbonAppList =
        AppManagementServiceComponent.getAppManager().getFaultyCarbonApps(tenantId);
    // CarbonApplication instance to delete
    String currentApp=null;
    String filename =null;

    // Iterate all applications for this tenant and find the application to delete
    for (String carbonApp : faultyCarbonAppList.keySet()) {
        // If appName is null throw an exception
        if (carbonApp == null) {
            handleException("Application name can't be null");
            return;
        }

        filename = carbonApp.substring(carbonApp.lastIndexOf('/') + 1);
    }

}

/**
 * Gives an ApplicationMetadata object with axis2 artifacts deployed through the given app.
 *
 * @param appName - input app name
 * @return - ApplicationMetadata object with found artifact info
 * @throws Exception - error on retrieving metadata
 */
public ApplicationMetadata getAppData(String appName) throws Exception {
    // If appName is null throw an exception
    if (appName == null) {
        handleException("Application name can't be null");
        return null;
    }

    ApplicationMetadata appData = new ApplicationMetadata();
    CarbonApplication currentApplication = null;

```

```

// Check whether there is an application in the system from the given name
String tenantId = AppDeployerUtils.getTenantIdString(getAxisConfig());
ArrayList<CarbonApplication> appList
    = AppManagementServiceComponent.getAppManager().getCarbonApps(tenantId);
for (CarbonApplication application : appList) {
    if (appName.equals(application.getAppNameWithVersion())) {
        appData.setAppName(application.getAppName());
        currentApplication = application;
        break;
    }
}

// If the app not found, throw an exception
if (currentApplication == null) {
    handleException("No Carbon Application found of the name : " + appName);
    return null;
}

String appVersion = currentApplication.getAppVersion();
if (appVersion != null) {
    appData.setAppVersion(appVersion);
}

// list of service groups which are owned by this app
List<ServiceGroupMetadata> serviceGroups = new ArrayList<ServiceGroupMetadata>();
// list of registry artifacts
List<RegistryMetadata> regArtifacts = new ArrayList<RegistryMetadata>();

List<ArtifactDeploymentStatus> artifactDeploymentStatusList = new ArrayList<ArtifactDeploymentStatus>();

List<String> regFilterList = new ArrayList<String>();
List<String> regHandlerList = new ArrayList<String>();

List<Artifact.Dependency> dependencies = currentApplication.getAppConfig().
    getApplicationArtifact().getDependencies();

for (Artifact.Dependency dependency : dependencies) {
    Artifact artifact = dependency.getArtifact();
    String type = artifact.getType();
    String instanceName = artifact.getRuntimeObjectName();

    if (DefaultAppDeployer.AAR_TYPE.equals(type) ||
        DefaultAppDeployer.DS_TYPE.equals(type)) {

        AxisServiceGroup sg;
        if (instanceName == null) {
            sg = findServiceGroupForArtifact(artifact);
            if (sg != null) {

```

```

        // set the instance name in Artifact so that we don't have to find it
        // next time
        artifact.setRuntimeObjectName(sg.getServiceGroupName());
    }
} else {
    sg = getAxisConfig().getServiceGroup(instanceName);
}

if (sg == null) {
    continue;
}
// set the service group name
ServiceGroupMetadata sgMetadata = new ServiceGroupMetadata();
sgMetadata.setSgName(sg.getServiceGroupName());
sgMetadata.setSgType(type);

// find services in the service group
List<String> services = new ArrayList<String>();
for (Iterator serviceIter = sg.getServices(); serviceIter.hasNext();) {
    AxisService axisService = (AxisService) serviceIter.next();
    // ignore if this is a client side service
    if (axisService.isClientSide()) {
        break;
    }
    services.add(axisService.getName());
}
sgMetadata.setServices(services.toArray(new String[services.size()]));
serviceGroups.add(sgMetadata);

} else if (RegistryResourceDeployer.REGISTRY_RESOURCE_TYPE.equals(type)) {
    // Create a Registry config metadata instance
    RegistryConfig regConf = artifact.getRegConfig();
    if (regConf == null) {
        regConf = readRegConfig(currentApplication.getAppname(), artifact.getName());
    }
    if (regConf == null) {
        continue;
    }
    artifact.setRegConfig(regConf);
    RegistryMetadata regMeta = new RegistryMetadata();
    regMeta.setArtifactName(artifact.getName());

    List<String> resources = new ArrayList<String>();
    List<String> dumps = new ArrayList<String>();
    List<String> collections = new ArrayList<String>();
    List<Association> associations = new ArrayList<Association>();

    // add resources

```

```

for (RegistryConfig.Resource resource : regConf.getResources()) {
    resources.add(resource.getPath() + "/" + resource.getFileName());
}

// add dumps
for (RegistryConfig.Dump dump : regConf.getDumps()) {
    dumps.add(dump.getPath());
}

// add collections
for (RegistryConfig.Collection collection : regConf.getCollections()) {
    collections.add(collection.getPath());
}

// add associations
for (RegistryConfig.Association association : regConf.getAssociations()) {
    Association assoMeta = new Association(association.getSourcePath(),
        association.getTargetPath());
    associations.add(assoMeta);
}

if (resources.size() == 0 && dumps.size() == 0 && collections.size() == 0
    && associations.size() == 0) {
    continue;
}
regMeta.setResources(resources.toArray(new String[resources.size()]));
regMeta.setDumps(dumps.toArray(new String[dumps.size()]));
regMeta.setCollections(collections.toArray(new String[collections.size()]));
regMeta.setAssociations(associations.toArray(new Association[associations.size()]));
regArtifacts.add(regMeta);

} else if (RegistryResourceDeployer.REGISTRY_FILTER_TYPE.equals(type)) {
    regFilterList.add(instanceName);
} else if (RegistryResourceDeployer.REGISTRY_HANDLER_TYPE.equals(type)) {
    regHandlerList.add(instanceName);
}

ArtifactDeploymentStatus artifactDeploymentStatus = new ArtifactDeploymentStatus();
artifactDeploymentStatus.setArtifactName(artifact.getName());
if (artifact.getDeploymentStatus() != null) {
    artifactDeploymentStatus.setDeploymentStatus(artifact.getDeploymentStatus());
}
artifactDeploymentStatusList.add(artifactDeploymentStatus);
}

// Set found services in the appData object
appData.setServiceGroups(serviceGroups
    .toArray(new ServiceGroupMetadata[serviceGroups.size()]));
appData.setRegistryFilters(regFilterList.toArray(new String[regFilterList.size()]));

```

```

appData.setRegistryHandlers(regHandlerList.toArray(new String[regHandlerList.size()]));
appData.setRegistryArtifacts(regArtifacts
    .toArray(new RegistryMetadata[regArtifacts.size()]));
appData.setArtifactsDeploymentStatus(artifactDeploymentStatusList.
    toArray(new ArtifactDeploymentStatus[artifactDeploymentStatusList.size()]));

return appData;
}

/**
 * Finds the AxisServiceGroup which corresponds to the given cApp Artifact. Artifact file
 * name is used to identify the AxisServiceGroup. Then the service type is also checked with
 * the type of the given artifact.
 *
 * @param artifact - cApp artifact
 * @return - corresponding AxisServiceGroup
 */
private AxisServiceGroup findServiceGroupForArtifact(Artifact artifact) {
    // Number of files in a service artifact should be 1
    if (artifact.getFiles().size() != 1) {
        return null;
    }

    String fileName = artifact.getFiles().get(0).getName();
    AxisConfiguration axisConfiguration = getAxisConfig();
    Iterator<AxisServiceGroup> serviceGroups = axisConfiguration.getServiceGroups();

    while (serviceGroups.hasNext()) {
        AxisServiceGroup sg = serviceGroups.next();

        // Filtering the admin services
        if (SystemFilter.isFilteredOutService(sg)) {
            continue; // No advancement of currentIndex
        }

        AxisService axisService = null;
        Iterator<AxisService> services = sg.getServices();

        // Find a service with the file name in this service group
        while (services.hasNext()) {
            AxisService temp = services.next();
            if (temp.getFileName() != null) {
                axisService = temp;
                break;
            }
        }
        if (axisService != null) {
            String filePath = axisService.getFileName().getPath().trim();

```



```

        if (filePath.endsWith(fileName)) {
            String serviceType = getArtifactTypeFromService(axisService, fileName);
            if (serviceType.equals(artifact.getType())) {
                return sg;
            }
        }
    }
}
return null;
}

/**
 * Finds the artifact type of the given service. Service type parameter is used to check this.
 *
 * @param service - AxisService instance
 * @param fileName - file name of the service artifact
 * @return - Service type
 */
private String getArtifactTypeFromService(AxisService service, String fileName) {
    String artifactType = null;

    Parameter serviceTypeParam = service.getParameter(ServerConstants.SERVICE_TYPE);
    String serviceType;
    if (serviceTypeParam != null) {
        serviceType = (String) serviceTypeParam.getValue();
    } else {
        if (fileName.endsWith(".jar")) {
            serviceType = "jaxws";
        } else {
            serviceType = "axis2";
        }
    }

    if (serviceType.equals("axis2")) {
        artifactType = DefaultAppDeployer.AAR_TYPE;
    } else if (serviceType.equals("data_service")) {
        artifactType = DefaultAppDeployer.DS_TYPE;
    }
    return artifactType;
}

private RegistryConfig readRegConfig(String parentAppName, String artifactName) {
    RegistryConfig regConfig = null;
    try {
        CarbonAppPersistenceManager capm = new CarbonAppPersistenceManager(getAxisConfig());
        regConfig = capm.loadRegistryConfig(AppDeployerConstants.APPLICATIONS + parentAppName +
            AppDeployerConstants.APP_DEPENDENCIES + artifactName);
    } catch (Exception e) {

```

```

        log.error("Error while trying to load registry config for C-App : " +
                parentAppName + " artifact : " + artifactName, e);
    }
    return regConfig;
}

/**
 * Used to download a carbon application archive.
 * @param fileName the name of the application archive (.car) to be downloaded
 * @return datahandler corresponding to the .car file to be downloaded
 * @throws Exception for invalid scenarios
 */
public DataHandler downloadCappArchive(String fileName) throws Exception {
    CarbonApplication currentApp = null;

    // Iterate all applications for this tenant and find the application to delete
    String tenantId = AppDeployerUtils.getTenantIdString(getAxisConfig());
    ArrayList<CarbonApplication> appList =
        AppManagementServiceComponent.getAppManager().getCarbonApps(tenantId);
    for (CarbonApplication carbonApp : appList) {
        if (fileName.equals(carbonApp.getAppFullNameWithVersion())) {
            currentApp = carbonApp;
        }
    }

    FileDataSource datasource = new FileDataSource(new File(currentApp.getAppFilePath()));
    DataHandler handler = new DataHandler(datasource);

    return handler;
}

private void handleException(String msg) throws CarbonException {
    log.error(msg);
    throw new CarbonException(msg);
}
}

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*/
package org.wso2.carbon.application.mgt;
```

```
public class ApplicationMetadata {

    private String appName;
    private String appVersion;
    private ServiceGroupMetadata[] serviceGroups;
    private RegistryMetadata[] registryArtifacts;
    private String[] registryFilters;
    private String[] registryHandlers;
    private ArtifactDeploymentStatus[] artifactsDeploymentStatus;

    public String getAppName() {
        return appName;
    }

    public void setAppName(String appName) {
        this.appName = appName;
    }

    public String getAppVersion(){
        return appVersion;
    }

    public void setAppVersion(String appVersion){
        this.appVersion = appVersion;
    }

    public ServiceGroupMetadata[] getServiceGroups() {
        return serviceGroups;
    }

    public void setServiceGroups(ServiceGroupMetadata[] serviceGroups) {
        this.serviceGroups = serviceGroups;
    }

    public String[] getRegistryFilters() {
        return registryFilters;
    }

    public void setRegistryFilters(String[] registryFilters) {
        this.registryFilters = registryFilters;
    }
}
```

```

    }

    public String[] getRegistryHandlers() {
        return registryHandlers;
    }

    public void setRegistryHandlers(String[] registryHandlers) {
        this.registryHandlers = registryHandlers;
    }

    public RegistryMetadata[] getRegistryArtifacts() {
        return registryArtifacts;
    }

    public void setRegistryArtifacts(RegistryMetadata[] registryArtifacts) {
        this.registryArtifacts = registryArtifacts;
    }

    public ArtifactDeploymentStatus[] getArtifactsDeploymentStatus() {
        return artifactsDeploymentStatus;
    }

    public void setArtifactsDeploymentStatus(
        ArtifactDeploymentStatus[] artifactsDeploymentStatus) {
        this.artifactsDeploymentStatus = artifactsDeploymentStatus;
    }
}

```

1.568 org.wso2.carbon.application.mgt.stub

4.2.0

1.569

org.wso2.carbon.application.mgt.synapse

4.2.0

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```

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 */

```
package org.wso2.carbon.application.mgt.synapse;
```

```
import org.wso2.carbon.application.deployer.CarbonApplication;
import org.wso2.carbon.application.deployer.AppDeployerUtils;
import org.wso2.carbon.application.deployer.synapse.SynapseAppDeployerConstants;
import org.wso2.carbon.application.deployer.config.Artifact;
import org.wso2.carbon.application.mgt.synapse.internal.SynapseAppServiceComponent;
import org.wso2.carbon.core.AbstractAdmin;
import org.apache.synapse.Startup;
import org.apache.synapse.endpoints.*;
import org.apache.synapse.startup.quartz.SimpleQuartz;
import org.apache.synapse.task.TaskDescription;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
```

```
import java.util.ArrayList;
import java.util.List;
```

```
public class SynapseApplicationAdmin extends AbstractAdmin {
```

```
    public static final String ADDRESS_EP = "address";
    public static final String FAILOVER_EP = "failOver";
    public static final String WSDL_EP = "WSDL";
    public static final String LOADBALANCE_EP = "loadBalance";
    public static final String DEFAULT_EP = "default";
```

```
    private static final Log log = LogFactory.getLog(SynapseApplicationAdmin.class);
```

```
    /**
```

```
     * Gives a SynapseApplicationMetadata object with all synapse artifacts deployed through the  

     * given app. This can consist of proxy services, endpoints etc..
```

```
     *
```

```
     * @param appName - input app name
```

```
     * @return - SynapseApplicationMetadata object with found artifact info
```

```
     * @throws Exception - error on retrieving metadata
```

```
    */
```

```

public SynapseApplicationMetadata getSynapseAppData(String appName) throws Exception {
    SynapseApplicationMetadata data = new SynapseApplicationMetadata();
    String tenantId = AppDeployerUtils.getTenantIdString(getAxisConfig());

    // Check whether there is an application in the system from the given name
    ArrayList<CarbonApplication> appList
        = SynapseAppServiceComponent.getAppManager().getCarbonApps(tenantId);
    CarbonApplication currentApplication = null;
    for (CarbonApplication application : appList) {
        if (appName.equals(application.getAppNameWithVersion())) {
            data.setAppName(application.getAppName());
            currentApplication = application;
            break;
        }
    }

    // If the app not found, throw an exception
    if (currentApplication == null) {
        String msg = "No Carbon Application found of the name : " + appName;
        log.error(msg);
        throw new Exception(msg);
    }

    List<String> sequenceList = new ArrayList<String>();
    List<EndpointMetadata> endpointList = new ArrayList<EndpointMetadata>();
    List<String> proxyList = new ArrayList<String>();
    List<String> leList = new ArrayList<String>();
    List<String> eventList = new ArrayList<String>();
    List<String> mediatorList = new ArrayList<String>();
    List<TaskMetadata> taskList = new ArrayList<TaskMetadata>();

    List<Artifact.Dependency> dependencies = currentApplication.getAppConfig().
        getApplicationArtifact().getDependencies();

    // iterate the dependent artifacts and create metadata elements
    for (Artifact.Dependency dependency : dependencies) {
        Artifact artifact = dependency.getArtifact();

        String type = artifact.getType();
        String instanceName = artifact.getName();

        // if the instance name is null, artifact deployment has failed..
        if (instanceName == null) {
            continue;
        }

        if (SynapseAppDeployerConstants.SEQUENCE_TYPE.equals(type)) {
            sequenceList.add(instanceName);
        }
    }
}

```

```

} else if (SynapseAppDeployerConstants.ENDPOINT_TYPE.equals(type)) {
    Endpoint endpoint = SynapseAppServiceComponent.getScService().
        getSynapseConfiguration().getEndpoint(instanceName);
    if (endpoint != null) {
        EndpointMetadata epData = new EndpointMetadata();
        epData.setName(instanceName);
        epData.setType(getEndpointType(endpoint));
        endpointList.add(epData);
    }
} else if (SynapseAppDeployerConstants.PROXY_SERVICE_TYPE.equals(type)) {
    proxyList.add(instanceName);
} else if (SynapseAppDeployerConstants.LOCAL_ENTRY_TYPE.equals(type)) {
    leList.add(instanceName);
} else if (SynapseAppDeployerConstants.EVENT_SOURCE_TYPE.equals(type)) {
    eventList.add(instanceName);
} else if (SynapseAppDeployerConstants.MEDIATOR_TYPE.equals(type)) {
    mediatorList.add(instanceName);
} else if (SynapseAppDeployerConstants.TASK_TYPE.equals(type)) {
    Startup task = SynapseAppServiceComponent.getScService().
        getSynapseConfiguration().getStartup(instanceName);
    TaskDescription taskDescription = ((SimpleQuartz) task).getTaskDescription();
    TaskMetadata taskMetadata = new TaskMetadata();
    taskMetadata.setName(taskDescription.getName());
    taskMetadata.setGroupName(taskDescription.getGroup());
    taskList.add(taskMetadata);
}
}

// Set found artifacts in the data object
data.setSequences(sequenceList.toArray(new String[sequenceList.size()]));
data.setEndpoints(endpointList.toArray(new EndpointMetadata[endpointList.size()]));
data.setProxyServices(proxyList.toArray(new String[proxyList.size()]));
data.setLocalEntries(leList.toArray(new String[leList.size()]));
data.setEvents(eventList.toArray(new String[eventList.size()]));
data.setMediators(mediatorList.toArray(new String[mediatorList.size()]));
data.setTasks(taskList.toArray(new TaskMetadata[taskList.size()]));

return data;
}

/**
 * Decides the endpoint type by checking the type of the endpoint instance
 *
 * @param ep - Endpoint instance
 * @return type
 */
private String getEndpointType(Endpoint ep) {
    String epType = null;

```

```

    if (ep instanceof AddressEndpoint) {
        epType = ADDRESS_EP;
    } else if (ep instanceof DefaultEndpoint) {
        epType = DEFAULT_EP;
    } else if (ep instanceof WSDLEndpoint) {
        epType = WSDL_EP;
    } else if (ep instanceof FailoverEndpoint) {
        epType = FAILOVER_EP;
    } else if (ep instanceof LoadbalanceEndpoint) {
        epType = LOADBALANCE_EP;
    }
    return epType;
}
}
}
/*
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 * software distributed under the License is distributed on an
 * "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 * KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations
 * under the License.
 */
package org.wso2.carbon.application.mgt.synapse;

/**
 * Metadata object for holding all synapse related artifacts
 */
public class SynapseApplicationMetadata {

    private String appName;
    private String[] sequences;
    private EndpointMetadata[] endpoints;
    private String[] localEntries;
    private String[] proxyServices;
    private String[] events;
    private String[] mediators;
    private TaskMetadata[] tasks;

```



```

public String getAppName() {
    return appName;
}

public void setAppName(String appName) {
    this.appName = appName;
}

public String[] getSequences() {
    return sequences;
}

public void setSequences(String[] sequences) {
    this.sequences = sequences;
}

public EndpointMetadata[] getEndpoints() {
    return endpoints;
}

public void setEndpoints(EndpointMetadata[] endpoints) {
    this.endpoints = endpoints;
}

public String[] getLocalEntries() {
    return localEntries;
}

public void setLocalEntries(String[] localEntries) {
    this.localEntries = localEntries;
}

public String[] getProxyServices() {
    return proxyServices;
}

public void setProxyServices(String[] proxyServices) {
    this.proxyServices = proxyServices;
}

public String[] getEvents() {
    return events;
}

public void setEvents(String[] events) {
    this.events = events;
}

```

```

public String[] getMediators() {
    return mediators;
}

public void setMediators(String[] mediators) {
    this.mediators = mediators;
}

public TaskMetadata[] getTasks() {
    return tasks;
}

public void setTasks(TaskMetadata[] tasks) {
    this.tasks = tasks;
}
}

```

1.570

org.wso2.carbon.application.mgt.synapse.stu b 4.2.0

1.571

org.wso2.carbon.application.mgt.synapse.ui 4.2.0

1.571.1 Available under license :

```

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```

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-->

```
<wsdl:definitions xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/" xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:ns1="http://org.apache.axis2/xsd"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:ax295="http://synapse.mgt.application.carbon.wso2.org/xsd"
xmlns:ns="http://synapse.mgt.application.carbon.wso2.org" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
targetNamespace="http://synapse.mgt.application.carbon.wso2.org">
  <wsdl:documentation>SynapseApplicationAdmin</wsdl:documentation>
  <wsdl:types>
    <xs:schema xmlns:ax296="http://synapse.mgt.application.carbon.wso2.org/xsd"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://synapse.mgt.application.carbon.wso2.org">
      <xs:import namespace="http://synapse.mgt.application.carbon.wso2.org/xsd"/>
      <xs:complexType name="Exception">
        <xs:sequence>
          <xs:element minOccurs="0" name="Exception" nillable="true" type="xs:anyType"/>
        </xs:sequence>
      </xs:complexType>
      <xs:element name="Exception">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="Exception" nillable="true" type="ns:Exception"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="getSynapseAppData">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="appName" nillable="true" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="getSynapseAppDataResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="return" nillable="true"
type="ax295:SynapseApplicationMetadata"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="deleteTask">
        <xs:complexType>
          <xs:sequence>
```

```

        <xs:element minOccurs="0" name="taskName" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="deleteSequence">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="sequenceName" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="deleteProxyService">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="psName" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="deleteLocalEntry">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="leName" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="deleteEvent">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="eventName" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="deleteEndpoint">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="endpointName" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
</xs:schema>
<xs:schema attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://synapse.mgt.application.carbon.wso2.org/xsd">
    <xs:complexType name="SynapseApplicationMetadata">
        <xs:sequence>
            <xs:element minOccurs="0" name="appName" nillable="true" type="xs:string"/>
            <xs:element maxOccurs="unbounded" minOccurs="0" name="endpoints" nillable="true"
type="ax295:EndpointMetadata"/>
            <xs:element maxOccurs="unbounded" minOccurs="0" name="events" nillable="true"

```

```

type="xs:string"/>
    <xs:element maxOccurs="unbounded" minOccurs="0" name="localEntries" nillable="true"
type="xs:string"/>
    <xs:element maxOccurs="unbounded" minOccurs="0" name="mediators" nillable="true"
type="xs:string"/>
    <xs:element maxOccurs="unbounded" minOccurs="0" name="proxyServices" nillable="true"
type="xs:string"/>
    <xs:element maxOccurs="unbounded" minOccurs="0" name="sequences" nillable="true"
type="xs:string"/>
    <xs:element maxOccurs="unbounded" minOccurs="0" name="tasks" nillable="true"
type="ax295:TaskMetadata"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="TaskMetadata">
    <xs:sequence>
        <xs:element minOccurs="0" name="groupName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="EndpointMetadata">
    <xs:sequence>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="type" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
</xs:schema>
</wsdl:types>
<wsdl:message name="deleteProxyServiceRequest">
    <wsdl:part name="parameters" element="ns:deleteProxyService"/>
</wsdl:message>
<wsdl:message name="Exception">
    <wsdl:part name="parameters" element="ns:Exception"/>
</wsdl:message>
<wsdl:message name="deleteTaskRequest">
    <wsdl:part name="parameters" element="ns:deleteTask"/>
</wsdl:message>
<wsdl:message name="deleteSequenceRequest">
    <wsdl:part name="parameters" element="ns:deleteSequence"/>
</wsdl:message>
<wsdl:message name="deleteEndpointRequest">
    <wsdl:part name="parameters" element="ns:deleteEndpoint"/>
</wsdl:message>
<wsdl:message name="deleteEventRequest">
    <wsdl:part name="parameters" element="ns:deleteEvent"/>
</wsdl:message>
<wsdl:message name="getSynapseAppDataRequest">
    <wsdl:part name="parameters" element="ns:getSynapseAppData"/>
</wsdl:message>

```

```

<wsdl:message name="getSynapseAppDataResponse">
  <wsdl:part name="parameters" element="ns:getSynapseAppDataResponse"/>
</wsdl:message>
<wsdl:message name="deleteLocalEntryRequest">
  <wsdl:part name="parameters" element="ns:deleteLocalEntry"/>
</wsdl:message>
<wsdl:portType name="SynapseApplicationAdminPortType">
  <wsdl:operation name="deleteProxyService">
    <wsdl:input message="ns:deleteProxyServiceRequest" wsaw:Action="urn:deleteProxyService"/>
    <wsdl:fault message="ns:Exception" name="Exception" wsaw:Action="urn:deleteProxyServiceException"/>
  </wsdl:operation>
  <wsdl:operation name="deleteTask">
    <wsdl:input message="ns:deleteTaskRequest" wsaw:Action="urn:deleteTask"/>
    <wsdl:fault message="ns:Exception" name="Exception" wsaw:Action="urn:deleteTaskException"/>
  </wsdl:operation>
  <wsdl:operation name="deleteSequence">
    <wsdl:input message="ns:deleteSequenceRequest" wsaw:Action="urn:deleteSequence"/>
    <wsdl:fault message="ns:Exception" name="Exception" wsaw:Action="urn:deleteSequenceException"/>
  </wsdl:operation>
  <wsdl:operation name="deleteEndpoint">
    <wsdl:input message="ns:deleteEndpointRequest" wsaw:Action="urn:deleteEndpoint"/>
    <wsdl:fault message="ns:Exception" name="Exception" wsaw:Action="urn:deleteEndpointException"/>
  </wsdl:operation>
  <wsdl:operation name="deleteEvent">
    <wsdl:input message="ns:deleteEventRequest" wsaw:Action="urn:deleteEvent"/>
    <wsdl:fault message="ns:Exception" name="Exception" wsaw:Action="urn:deleteEventException"/>
  </wsdl:operation>
  <wsdl:operation name="getSynapseAppData">
    <wsdl:input message="ns:getSynapseAppDataRequest" wsaw:Action="urn:getSynapseAppData"/>
    <wsdl:output message="ns:getSynapseAppDataResponse"
wsaw:Action="urn:getSynapseAppDataResponse"/>
    <wsdl:fault message="ns:Exception" name="Exception"
wsaw:Action="urn:getSynapseAppDataException"/>
  </wsdl:operation>
  <wsdl:operation name="deleteLocalEntry">
    <wsdl:input message="ns:deleteLocalEntryRequest" wsaw:Action="urn:deleteLocalEntry"/>
    <wsdl:fault message="ns:Exception" name="Exception" wsaw:Action="urn:deleteLocalEntryException"/>
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="SynapseApplicationAdminSoap11Binding"
type="ns:SynapseApplicationAdminPortType">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"/>
  <wsdl:operation name="deleteTask">
    <soap:operation soapAction="urn:deleteTask" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:fault name="Exception">

```

```

    <soap:fault use="literal" name="Exception"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="deleteProxyService">
  <soap:operation soapAction="urn:deleteProxyService" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:fault name="Exception">
    <soap:fault use="literal" name="Exception"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="deleteSequence">
  <soap:operation soapAction="urn:deleteSequence" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:fault name="Exception">
    <soap:fault use="literal" name="Exception"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="deleteEndpoint">
  <soap:operation soapAction="urn:deleteEndpoint" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:fault name="Exception">
    <soap:fault use="literal" name="Exception"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="deleteEvent">
  <soap:operation soapAction="urn:deleteEvent" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:fault name="Exception">
    <soap:fault use="literal" name="Exception"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="getSynapseAppData">
  <soap:operation soapAction="urn:getSynapseAppData" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="Exception">

```

```

        <soap:fault use="literal" name="Exception"/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="deleteLocalEntry">
    <soap:operation soapAction="urn:deleteLocalEntry" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:fault name="Exception">
        <soap:fault use="literal" name="Exception"/>
    </wsdl:fault>
</wsdl:operation>
</wsdl:binding>
<wsdl:binding name="SynapseApplicationAdminSoap12Binding"
type="ns:SynapseApplicationAdminPortType">
    <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"/>
    <wsdl:operation name="deleteTask">
        <soap12:operation soapAction="urn:deleteTask" style="document"/>
        <wsdl:input>
            <soap12:body use="literal"/>
        </wsdl:input>
        <wsdl:fault name="Exception">
            <soap12:fault use="literal" name="Exception"/>
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="deleteProxyService">
        <soap12:operation soapAction="urn:deleteProxyService" style="document"/>
        <wsdl:input>
            <soap12:body use="literal"/>
        </wsdl:input>
        <wsdl:fault name="Exception">
            <soap12:fault use="literal" name="Exception"/>
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="deleteSequence">
        <soap12:operation soapAction="urn:deleteSequence" style="document"/>
        <wsdl:input>
            <soap12:body use="literal"/>
        </wsdl:input>
        <wsdl:fault name="Exception">
            <soap12:fault use="literal" name="Exception"/>
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="deleteEndpoint">
        <soap12:operation soapAction="urn:deleteEndpoint" style="document"/>
        <wsdl:input>
            <soap12:body use="literal"/>
        </wsdl:input>

```



```

    <wsdl:fault name="Exception">
      <soap12:fault use="literal" name="Exception"/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="deleteEvent">
    <soap12:operation soapAction="urn:deleteEvent" style="document"/>
    <wsdl:input>
      <soap12:body use="literal"/>
    </wsdl:input>
    <wsdl:fault name="Exception">
      <soap12:fault use="literal" name="Exception"/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="getSynapseAppData">
    <soap12:operation soapAction="urn:getSynapseAppData" style="document"/>
    <wsdl:input>
      <soap12:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="Exception">
      <soap12:fault use="literal" name="Exception"/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="deleteLocalEntry">
    <soap12:operation soapAction="urn:deleteLocalEntry" style="document"/>
    <wsdl:input>
      <soap12:body use="literal"/>
    </wsdl:input>
    <wsdl:fault name="Exception">
      <soap12:fault use="literal" name="Exception"/>
    </wsdl:fault>
  </wsdl:operation>
</wsdl:binding>
<wsdl:binding name="SynapseApplicationAdminHttpBinding" type="ns:SynapseApplicationAdminPortType">
  <http:binding verb="POST"/>
  <wsdl:operation name="deleteTask">
    <http:operation location="deleteTask"/>
    <wsdl:input>
      <mime:content type="text/xml" part="deleteTask"/>
    </wsdl:input>
  </wsdl:operation>
  <wsdl:operation name="deleteProxyService">
    <http:operation location="deleteProxyService"/>
    <wsdl:input>
      <mime:content type="text/xml" part="deleteProxyService"/>
    </wsdl:input>
  </wsdl:operation>

```

```

</wsdl:operation>
<wsdl:operation name="deleteSequence">
  <http:operation location="deleteSequence"/>
  <wsdl:input>
    <mime:content type="text/xml" part="deleteSequence"/>
  </wsdl:input>
</wsdl:operation>
<wsdl:operation name="deleteEndpoint">
  <http:operation location="deleteEndpoint"/>
  <wsdl:input>
    <mime:content type="text/xml" part="deleteEndpoint"/>
  </wsdl:input>
</wsdl:operation>
<wsdl:operation name="deleteEvent">
  <http:operation location="deleteEvent"/>
  <wsdl:input>
    <mime:content type="text/xml" part="deleteEvent"/>
  </wsdl:input>
</wsdl:operation>
<wsdl:operation name="getSynapseAppData">
  <http:operation location="getSynapseAppData"/>
  <wsdl:input>
    <mime:content type="text/xml" part="getSynapseAppData"/>
  </wsdl:input>
  <wsdl:output>
    <mime:content type="text/xml" part="getSynapseAppData"/>
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="deleteLocalEntry">
  <http:operation location="deleteLocalEntry"/>
  <wsdl:input>
    <mime:content type="text/xml" part="deleteLocalEntry"/>
  </wsdl:input>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="SynapseApplicationAdmin">
  <wsdl:port name="SynapseApplicationAdminHttpsSoap11Endpoint"
binding="ns:SynapseApplicationAdminSoap11Binding">
    <soap:address
location="https://localhost:8243/services/SynapseApplicationAdmin.SynapseApplicationAdminHttpsSoap11Endpoi
nt"/>
  </wsdl:port>
  <wsdl:port name="SynapseApplicationAdminHttpsSoap12Endpoint"
binding="ns:SynapseApplicationAdminSoap12Binding">
    <soap12:address
location="https://localhost:8243/services/SynapseApplicationAdmin.SynapseApplicationAdminHttpsSoap12Endpoi
nt"/>
  </wsdl:port>

```

```

    <wsdl:port name="SynapseApplicationAdminHttpsEndpoint"
binding="ns:SynapseApplicationAdminHttpBinding">
    <http:address
location="https://localhost:8243/services/SynapseApplicationAdmin.SynapseApplicationAdminHttpsEndpoint"/>
    </wsdl:port>
  </wsdl:service>
</wsdl:definitions>

```

1.572 org.wso2.carbon.application.mgt.ui

4.2.0

1.572.1 Available under license :

```

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~ software distributed under the License is distributed on an
~ "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
~ KIND, either express or implied. See the License for the
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-->
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage" %>
<% @ page import="org.wso2.carbon.application.mgt.ui.ApplicationAdminClient" %>
<% @ page import="java.util.ResourceBundle" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="org.wso2.carbon.application.mgt.stub.types.carbon.ApplicationMetadata" %>
<% @ page import="org.wso2.carbon.application.mgt.stub.types.carbon.ServiceGroupMetadata" %>
<% @ page import="org.wso2.carbon.application.mgt.stub.types.carbon.RegistryMetadata" %>
<% @ page import="org.wso2.carbon.application.mgt.stub.types.carbon.Association" %>
<% @ page import="org.wso2.carbon.ui.util.CharacterEncoder" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>

<%
String appName = CharacterEncoder.getSafeText(request.getParameter("appName"));

```

```

request.setAttribute("appName", appName);

String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
ConfigurationContext configContext = (ConfigurationContext) config.getServletContext()
    .getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);

String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);

String BUNDLE = "org.wso2.carbon.application.mgt.ui.i18n.Resources";
ResourceBundle bundle = ResourceBundle.getBundle(BUNDLE, request.getLocale());

ApplicationMetadata metadata = null;

try {
    ApplicationAdminClient client = new ApplicationAdminClient(cookie,
        backendServerURL, configContext, request.getLocale());
    metadata = client.getAppData(appName);
} catch (Exception e) {
    response.setStatus(500);
    CarbonUIMessage uiMsg = new CarbonUIMessage(CarbonUIMessage.ERROR, e.getMessage(), e);
    session.setAttribute(CarbonUIMessage.ID, uiMsg);
}

boolean foundDataServices = false;
boolean foundOtherServices = false;

%>

<fmt:bundle basename="org.wso2.carbon.application.mgt.ui.i18n.Resources">
    <carbon:breadcrumb label="carbonapps.application.dashboard"
        resourceBundle="org.wso2.carbon.application.mgt.ui.i18n.Resources"
        topPage="false" request="<%=request%>"/>

<script type="text/javascript">

// function deleteArtifact(artifactName, artifactType, action) {
    <!--CARBON.showConfirmationDialog("<fmt:message key="confirm.delete.artifact"/>" , function(){--%>
//     document.appInfoForm.action = action + "?artifactName="
//         <!--+ artifactName + "&artifactType=" + artifactType + "&appName=<%= appName%>";--%>
//     document.appInfoForm.submit();
//     });
// }

// function deleteModule(moduleName, moduleVersion) {
    <!--CARBON.showConfirmationDialog("<fmt:message key="confirm.delete.artifact"/>" , function(){--%>
//     document.appInfoForm.action = "delete_artifact.jsp?artifactName="
//         <!--+ moduleName + "&moduleVersion=" + moduleVersion + "&appName=<%= appName%>";--%>

```

```

//      document.appInfoForm.submit();
//    });
//  }

</script>

<div id="middle">
  <h2><fmt:message key="carbonapps.application.dashboard"/> : <%= appName%></h2>

  <div id="workArea">
    <form action="" name="appInfoForm" method="post">
      <%
        if (metadata != null) {
          ServiceGroupMetadata[] serviceGroups = metadata.getServiceGroups();
          if (serviceGroups != null && serviceGroups.length > 0) {
            for (ServiceGroupMetadata serviceGroup : serviceGroups) {
              if ("service/dataservice".equals(serviceGroup.getSgType())) {
                foundDataServices = true;
              } else {
                foundOtherServices = true;
              }
            }
          }
          if (foundOtherServices) {
            %>

            <table class="styledLeft" id="servicesTable" width="60%">
              <thead>
                <tr>
                  <th width="50%">&nbsp;<fmt:message key="carbonapps.service.groups"/></th>
                  <th><fmt:message key="carbonapps.services"/></th>
                  <%--<th><fmt:message key="carbonapps.actions"/></th>--%>
                </tr>
              </thead>
              <tbody>
                <%
                  for (ServiceGroupMetadata serviceGroup : serviceGroups) {
                    if (!"service/dataservice".equals(serviceGroup.getSgType())) {
                      %>
                      <tr>
                        <td rowspan="<%= serviceGroup.getServices().length%>">
                          <a href="../service-mgt/list_service_group.jsp?serviceGroupName=<%=
serviceGroup.getSgName()%>"><%= serviceGroup.getSgName()%></a>
                        </td>
                        <%
                          int serviceCount = 0;
                          for (String service : serviceGroup.getServices()) {

```

```

        if (serviceCount != 0) {
    %>
    <tr>
    <%
        }
    %>
        <td><a href=" ../service-mgt/service_info.jsp?serviceName=<%= service%>"><%=
service%></a></td>
    <% if (serviceCount != 0) { %>
    </tr>
    <%
        }
        serviceCount++;
    }
    }
    %>
</tbody>
</table>

<%
}
if (foundDataServices) { %>
<p>&nbsp;&nbsp;&nbsp;</p>
<table class="styledLeft" id="dataservicesTable" width="60%">
    <thead>
    <tr>
        <th width="50%">&nbsp;<fmt:message key="carbonapps.ds.service.groups"/></th>
        <th><fmt:message key="carbonapps.ds.services"/></th>
    </tr>
    </thead>
    <tbody>
    <%
        for (ServiceGroupMetadata serviceGroup : serviceGroups) {
            if ("service/dataservice".equals(serviceGroup.getSgType())) {
    %>
    <tr>
        <td rowspan="<%= serviceGroup.getServices().length%>">
            <a href=" ../service-mgt/list_service_group.jsp?serviceGroupName=<%=
serviceGroup.getSgName()%>"><%= serviceGroup.getSgName()%></a>
        </td>
    <%
            int serviceCount = 0;
            for (String service : serviceGroup.getServices()) {
                if (serviceCount != 0) {
    %>
    <tr>

```



```

    }
    %>
</table>
</td>
<td>
<table style="padding:0;border:0; !important">
  <%
    if (meta.getCollections() != null) {
      for (String path : meta.getCollections()) {
        %>
        <tr><td style="padding:0;border:0; !important"><nobr><%= path%></nobr></td></tr>
        <%
          }
        }
      %>
    </table>
  </td>
  <td>
<table style="padding:0;border:0; !important">
  <%
    if (meta.getDumps() != null) {
      for (String path : meta.getDumps()) {
        %>
        <tr><td style="padding:0;border:0; !important"><nobr><%= path%></nobr></td></tr>
        <%
          }
        }
      %>
    </table>
  </td>
  <td>
<table style="padding:0;border:0; !important">
  <%
    if (meta.getAssociations() != null) {
      for (Association association : meta.getAssociations()) {
        %>
        <tr><td style="padding:0;border:0; !important"><nobr><%= association.getSourcePath()%> :
<%= association.getTargetPath()%></nobr></td></tr>
        <%
          }
        }
      %>
    </table>
  </td>
</tr>
<%
  }
%>

```



```

        </tbody>
</table>
<%
    }
    String[] registryFilters = metadata.getRegistryFilters();
    if (registryFilters != null && registryFilters.length > 0) {
%>
<p>&nbsp;&nbsp;&nbsp;</p>
<table class="styledLeft" id="RegistryFiltersTable" width="40%">
    <thead>
    <tr>
        <th>&nbsp;<fmt:message
key="carbonapps.registry.filters"/></th>
    </tr>
    </thead>
    <tbody>
    <%
        for (String filter : registryFilters) {
    %>
    <tr>
        <td><%= filter%></td>
    </tr>
    <%
        }
    %>
    </tbody>
</table>
<%
    }
    String[] registryHandlers = metadata.getRegistryHandlers();
    if (registryHandlers != null && registryHandlers.length > 0) {
%>
<p>&nbsp;&nbsp;&nbsp;</p>
<table class="styledLeft" id="RegistryHandlersTable" width="40%">
    <thead>
    <tr>
        <th>&nbsp;<fmt:message
key="carbonapps.registry.handlers"/></th>
    </tr>
    </thead>
    <tbody>
    <%
        for (String handler : registryHandlers) {
    %>
    <tr>
        <td><%= handler%></td>
    </tr>
    <%

```

```

    }
    %>
</tbody>
</table>
<%
    }
    }
    if (CarbonUIUtil.isContextRegistered(config, "/war-apps/")) {
    %>
<jsp:include page="../war-apps/index.jsp"/>
<jsp:include page="../war-apps/jaxws_info.jsp"/>
<%
    }

    if (CarbonUIUtil.isContextRegistered(config, "/synapse-apps/")) {
    %>
<jsp:include page="../synapse-apps/index.jsp"/>
<%
    }

    if (CarbonUIUtil.isContextRegistered(config, "/bpel-apps/")) {
    %>
<jsp:include page="../bpel-apps/index.jsp"/>
<%
    }

    if (CarbonUIUtil.isContextRegistered(config, "/humantask-apps/")) {
    %>
<jsp:include page="../humantask-apps/index.jsp"/>
<%
    }
    %>
</form>
</div>
</div>

</fmt:bundle>
/*
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```

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*/

```
package org.wso2.carbon.application.mgt.ui;
```

```
import org.apache.axis2.AxisFault;  
import org.apache.axis2.Constants;  
import org.apache.axis2.client.Options;  
import org.apache.axis2.client.ServiceClient;  
import org.apache.axis2.context.ConfigurationContext;  
import org.apache.commons.logging.Log;  
import org.apache.commons.logging.LogFactory;  
import org.wso2.carbon.application.mgt.stub.ApplicationAdminExceptionException;  
import org.wso2.carbon.application.mgt.stub.ApplicationAdminStub;  
import org.wso2.carbon.application.mgt.stub.types.carbon.ApplicationMetadata;
```

```
import javax.activation.DataHandler;  
import javax.servlet.ServletOutputStream;  
import javax.servlet.http.HttpServletRequest;  
import java.io.IOException;  
import java.io.InputStream;  
import java.util.Locale;  
import java.util.ResourceBundle;
```

```
public class ApplicationAdminClient {  
    private static final Log log = LogFactory.getLog(ApplicationAdminClient.class);  
    private static final String BUNDLE = "org.wso2.carbon.application.mgt.ui.i18n.Resources";  
    private ResourceBundle bundle;  
    public ApplicationAdminStub stub;  
  
    public ApplicationAdminClient(String cookie,  
        String backendServerURL,  
        ConfigurationContext configCtx,  
        Locale locale) throws AxisFault {  
        String serviceURL = backendServerURL + "ApplicationAdmin";  
        bundle = ResourceBundle.getBundle(BUNDLE, locale);  
  
        stub = new ApplicationAdminStub(configCtx, serviceURL);  
        ServiceClient client = stub._getServiceClient();  
        Options option = client.getOptions();  
        option.setManageSession(true);  
        option.setProperty(org.apache.axis2.transport.http.HTTPConstants.COOKIE_STRING, cookie);  
        option.setProperty(Constants.Configuration.ENABLE_MTOM, Constants.VALUE_TRUE);  
    }  
  
    public String[] getAllApps() throws AxisFault {
```

```

try {
    return stub.listAllApplications();
} catch (java.lang.Exception e) {
    handleException(bundle.getString("cannot.get.service.data"), e);
}
return null;
}

public ApplicationMetadata getAppData(String appNameWithVersion) throws AxisFault {
    try {
        return stub.getAppData(appNameWithVersion);
    } catch (java.lang.Exception e) {
        handleException(bundle.getString("cannot.get.service.data"), e);
    }
    return null;
}

public void deleteApp(String appNameWithVersion) throws AxisFault {
    try {
        stub.deleteApplication(appNameWithVersion);
    } catch (java.lang.Exception e) {
        handleException(bundle.getString("cannot.delete.artifact"), e);
    }
}

public String[] getAllFaultyApps() throws AxisFault {
    try {
        return stub.listAllFaultyApplications();
    } catch (java.lang.Exception e) {
        handleException(bundle.getString("cannot.get.service.data"), e);
    }
    return null;
}

public String getFaultException(String faultyAppName) throws AxisFault{
    try {
        return stub.getFaultException(faultyAppName);
    } catch (java.lang.Exception e) {
        handleException(bundle.getString("cannot.get.service.data"), e);
    }
    return null;
}

public void deleteFaultyApp(String[] faultyAppName) throws AxisFault{
    try {
        stub.deleteFaultyApplication(faultyAppName);
    } catch (java.lang.Exception e) {
        handleException(bundle.getString("cannot.get.service.data"), e);
    }
}
}

```

```

// public void deleteServiceGroup(String sgName) throws AxisFault {
//     try {
//         stub.deleteServiceGroup(sgName);
//     } catch (java.lang.Exception e) {
//         handleException(bundle.getString("cannot.delete.artifact"), e);
//     }
// }

// public void deleteModule(String moduleName, String moduleVersion) throws AxisFault {
//     try {
//         stub.deleteModule(moduleName, moduleVersion);
//     } catch (java.lang.Exception e) {
//         handleException(bundle.getString("cannot.delete.artifact"), e);
//     }
// }

private void handleException(String msg, java.lang.Exception e) throws AxisFault {
    log.error(msg, e);
    throw new AxisFault(msg, e);
}

public void downloadCappArchive(String filename, HttpServletResponse response)
    throws IOException, ApplicationAdminException {

    ServletOutputStream out = response.getOutputStream();
    DataHandler dataHandler = stub.downloadCappArchive(filename);
    if (dataHandler != null) {
        response.setHeader("Content-Disposition", "fileName=" + filename + ".car");
        response.setContentType(dataHandler.getContentType());
        InputStream in = dataHandler.getDataSource().getInputStream();
        int nextChar;
        while ((nextChar = in.read()) != -1) {
            out.write((char) nextChar);
        }
        out.flush();
        in.close();
        out.close();
    } else {
        out.write("The requested capp archive was not found on the server".getBytes());
    }
}

}
}

```

1.573 org.wso2.carbon.application.upload

4.2.0

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1.574 org.wso2.carbon.authenticator.proxy

4.2.0

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1.575 org.wso2.carbon.authenticator.stub 4.2.0

1.576 org.wso2.carbon.bam.data.publisher.util 4.2.0

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1.580 org.wso2.carbon.base 4.2.0

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```
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 */  
package org.wso2.carbon.base;  
  
import java.util.Stack;  
  
import org.apache.commons.logging.Log;  
import org.apache.commons.logging.LogFactory;  
  
public class CarbonApplicationContextHolderBase {  
  
    private String applicationName;  
  
    private static final Log log = LogFactory.getLog(CarbonApplicationContextHolderBase.class);  
  
    private CarbonApplicationContextHolderBase() {
```

```

this.applicationName = "";
}

// stores the current AppContext local to the running thread.
private static ThreadLocal<CarbonApplicationContextHolderBase> currentAppContextHolderBase = new
ThreadLocal<CarbonApplicationContextHolderBase>() {
    protected CarbonApplicationContextHolderBase initialValue() {
        return new CarbonApplicationContextHolderBase();
    }
};

// stores references to the existing CarbonAppContexts when starting app
// flows. These
// references will be popped back, when a app flow is ended.
private static ThreadLocal<Stack<CarbonApplicationContextHolderBase>> parentAppContextHolderBaseStack =
new ThreadLocal<Stack<CarbonApplicationContextHolderBase>>() {
    protected Stack<CarbonApplicationContextHolderBase> initialValue() {
        return new Stack<CarbonApplicationContextHolderBase>();
    }
};

/**
 * Method to obtain the current carbon context holder's base.
 *
 * @return the current carbon context holder's base.
 */
public static CarbonApplicationContextHolderBase getCurrentCarbonAppContextHolderBase() {
    return currentAppContextHolderBase.get();
}

public void startApplicationFlow() {
    log.trace("Starting Application flow.");
    parentAppContextHolderBaseStack.get().push(new CarbonApplicationContextHolderBase(this));
    this.restore(null);
}

public void endApplicationFlow() {
    log.trace("Stopping Application flow.");
    this.restore(parentAppContextHolderBaseStack.get().pop());
}

public CarbonApplicationContextHolderBase(
    CarbonApplicationContextHolderBase carbonAppContextHolder) {
    this.applicationName = carbonAppContextHolder.applicationName;
}

public String getApplicationName() {

```

```

return applicationName;
}

public void setApplicationName(String applicationName) {
    this.applicationName = applicationName;
}

/**
 * This method will destroy the current CarbonAppContext holder.
 */
public static void destroyCurrentCarbonAppContextHolder() {
    currentAppContextHolderBase.remove();
    parentAppContextHolderBaseStack.remove();
}

// Utility method to restore a CarbonAppContext.
private void restore(CarbonApplicationContextHolderBase carbonAppContextHolder) {
    if (carbonAppContextHolder != null) {
        this.applicationName = carbonAppContextHolder.applicationName;
    } else {
        this.applicationName = "";
    }
}
}

```

1.581 org.wso2.carbon.caching 4.2.0

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1.582 org.wso2.carbon.caching.core 4.2.0

1.582.1 Available under license :

```
package org.wso2.carbon.caching.core.permissiontree;
```

```
import org.wso2.carbon.caching.core.CacheEntry;
```

```

import java.io.Serializable;

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 */

public class PermissionTreeCacheEntry extends CacheEntry implements Serializable {

    private static final long serialVersionUID = 3730841109352949847L;
    private int treeHash;

    public PermissionTreeCacheEntry(int treeHash) {
        this.treeHash = treeHash;
    }

    public int getPermissionTreeCacheEntry() {
        return treeHash;
    }

}

package org.wso2.carbon.caching.core.permissiontree;

import org.wso2.carbon.caching.core.BaseCache;
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```

```

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*/

/**
* Date: Oct 1, 2010 Time: 2:36:37 PM
*/

/**
* This is the permission cache.
*/
public class PermissionTreeCache extends BaseCache {

    private static PermissionTreeCache permissionCache = null;

    public static final String PERMISSION_CACHE = "PERMISSION_CACHE";

    private PermissionTreeCache() {
        super(PERMISSION_CACHE);
    }

    /**
    * Gets a new instance of PermissionCache.
    *
    * @return A new instance of PermissionCache.
    */
    public synchronized static PermissionTreeCache getInstance() {
        if (permissionCache == null) {
            permissionCache = new PermissionTreeCache();
        }
        return permissionCache;
    }
}

package org.wso2.carbon.caching.core.permissiontree;

import org.wso2.carbon.caching.core.CacheKey;

import java.io.Serializable;

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```

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*/

```
public class PermissionTreeCacheKey extends CacheKey implements Serializable {
```

```
    private int cacheKeyId;
```

```
    private String serverId;
```

```
    private static final long serialVersionUID = 1281400603190208429L;
```

```
    public PermissionTreeCacheKey(String serverId, int cacheKeyId) {
        this.cacheKeyId = cacheKeyId;
        this.serverId = serverId;
    }
```

```
    public int getCacheKeyId() {
        return cacheKeyId;
    }
```

```
    public String getServerId() {
        return serverId;
    }
```

```
@Override
```

```
public boolean equals(Object otherObject) {
```

```
    if (!(otherObject instanceof PermissionTreeCacheKey)) {
        return false;
    }
```

```
    PermissionTreeCacheKey secondKey = (PermissionTreeCacheKey)otherObject;
```

```
    if(this.serverId != null){
```

```
        return this.cacheKeyId == secondKey.getCacheKeyId() &&
            this.serverId.equals(secondKey.getServerId());
```

```
    } else {
```

```
        return this.getCacheKeyId() == secondKey.getCacheKeyId();
```

```
    }
```

```
}
```

```
@Override
```

```
public int hashCode() {
```

```
    if(serverId != null){
```

```
        return this.cacheKeyId + this.serverId.hashCode() * 7 ;
```

```
    } else {
```

```
        return this.cacheKeyId;
    }
}
}
```

1.583 org.wso2.carbon.caching.stub 4.2.0

1.584 org.wso2.carbon.caching.ui 4.2.0

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1.585 org.wso2.carbon.captcha.mgt 4.2.0

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1.586 org.wso2.carbon.cloud.gateway.agent

4.2.0

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*/

package org.wso2.carbon.cloud.gateway.agent.observer;

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.cloud.gateway.agent.service.CGAgentAdminService;
import org.wso2.carbon.cloud.gateway.common.CGConstant;
import org.wso2.carbon.cloud.gateway.common.CGException;
```

/**

* Implementation for {@link CGAgentObserver}

*/

```
public class CGAgentObserverImpl implements CGAgentObserver {
```

```
    private String host;
```

```
    private int port;
```

```
    private String serviceName;
```

```
    private Log log = LogFactory.getLog(CGAgentObserverImpl.class);
```

```
    public CGAgentObserverImpl(String host, String serviceName, int port) {
```

```
        this.host = host;
```

```
        this.serviceName = serviceName;
```

```
        this.port = port;
```

```
    }
```

```
    public void update(CGAgentSubject subject) {
```

```
        try {
```

```
            // do the re-publishing of the service again
```

```
            boolean isAutomatic = true;
```

```
            CGAgentAdminService service = new CGAgentAdminService();
```

```
            String status = service.getServiceStatus(serviceName);
```

```
            if (!status.equals(CGConstant.CG_SERVICE_STATUS_AUTO_MATIC)) {
```

```
                isAutomatic = false;
```

```
            }
```

```

        String serverName = service.getPublishedServer(serviceName);
        service.unPublishService(serviceName, serverName);
        service.publishService(serviceName, serverName, isAutomatic);
    } catch (CGException e) {
        log.error("Error while re-publishing the service '" + serviceName + "' via " +
            "received publish notification. You may need to re-publish the service manually!");
    }
}

public String getHostName() {
    return host;
}

public int getPort(){
    return port;
}
}
/*
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 */
package org.wso2.carbon.cloud.gateway.agent.observer;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

/**
 * Implementation for {@link CGAgentSubject}
 */
public class CGAgentSubjectImpl implements CGAgentSubject {
    private List<CGAgentObserver> observers =
        Collections.synchronizedList(new ArrayList<CGAgentObserver>());

    public void addObserver(CGAgentObserver o) {
        observers.add(o);
    }
}

```



```

public void removeObserver(CGAgentObserver o) {
    observers.remove(o);
}

public void connected(String host, int port) {
    notifyObservers(host, port);
}

private void notifyObservers(String host, int port) {
    for (Object observer : observers) {
        CGAgentObserver o = (CGAgentObserver) observer;
        if (host != null && host.equals(o.getHost_name()) && port == o.getPort()) {
            o.update(this);
        }
    }
}
}
}

```

1.587

org.wso2.carbon.cloud.gateway.agent.stub

4.2.0

1.588

org.wso2.carbon.cloud.gateway.agent.ui 4.2.0

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1.589

org.wso2.carbon.cloud.gateway.common

4.2.0

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1.593 org.wso2.carbon.core 4.2.0

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 */
package org.wso2.carbon.core.internal.permission.update;

import org.apache.axis2.context.ConfigurationContext;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.core.internal.CarbonCoreDataHolder;
import org.wso2.carbon.core.multitenancy.utils.TenantAxisUtils;
import org.wso2.carbon.user.core.tenant.Tenant;
import org.wso2.carbon.utils.multitenancy.MultitenantConstants;

import java.util.List;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;

/**
 * This Job handles updating of tenant permissions. It will periodically get the list of active
 * tenants, and check whether the permission of each tenant needs to be updated. If the permission
 * tree of a tenant needs to be updated, it will create a Task of type
 * TenantPermissionUpdateTask, and submit it to an ExecutorService which will
 * execute those tasks which update tenant permissions.
 */
```

```

public class PermissionUpdateTask implements Runnable {
    private static final Log log = LogFactory.getLog(PermissionUpdateTask.class);
    private static ExecutorService threadPool = Executors.newCachedThreadPool();
    private String isRunning = "false";

    /**
     * An instance of this task will be created per active tenant, if that tenant's permission
     * should be updated.
     */
    private static class TenantPermissionUpdateTask implements Runnable {

        private int tenantId;

        private TenantPermissionUpdateTask(int tenantId) {
            this.tenantId = tenantId;
        }

        public void run() {
            PermissionUpdater.update(tenantId);
        }
    }

    public void run() {
        synchronized (isRunning) {
            if (isRunning.equals("true")) {
                return;
            }
        }
        isRunning = "true";

        if (log.isDebugEnabled()) {
            log.debug("Periodic task of updating permission cache is started.");
        }

        try {
            updateSuperTenantPermissions();
            updateTenantPermissions();
        } catch (Exception e) {
            log.error("Error when obtaining the tenant's govovernance registry instance to update " +
                "the permission cache", e);
        } finally {
            isRunning = "false";
        }
    }

    private void updateSuperTenantPermissions() throws Exception {
        if (PermissionUpdater.needsUpdating(MultitenantConstants.SUPER_TENANT_ID)) {
            threadPool.submit(new TenantPermissionUpdateTask(MultitenantConstants.SUPER_TENANT_ID));
        }
    }
}

```

```

    }
}

private void updateTenantPermissions() throws Exception {
    ConfigurationContext mainServerConfigContext =
        CarbonCoreDataHolder.getInstance().getMainServerConfigContext();
    List<Tenant> tenantList = TenantAxisUtils.getActiveTenants(mainServerConfigContext);
    Tenant[] tenants = tenantList.toArray(new Tenant[tenantList.size()]);
    for (Tenant tenant : tenants) {
        if (!tenant.isActive()) {
            continue;
        }
        int tenantId = tenant.getId();
        if (PermissionUpdater.needsUpdating(tenantId)) {
            threadPool.submit(new TenantPermissionUpdateTask(tenantId));
        }
    }
}
}
}
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 */
package org.wso2.carbon.core.internal.permission.update;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.osgi.service.component.ComponentContext;
import org.wso2.carbon.core.internal.CarbonCoreDataHolder;
import org.wso2.carbon.registry.core.service.RegistryService;
import org.wso2.carbon.user.core.UserCoreConstants;
import org.wso2.carbon.utils.Axis2ConfigurationContextObserver;
import org.wso2.carbon.utils.ConfigurationContextService;
import org.wso2.carbon.utils.multitenancy.MultitenantConstants;

import java.util.concurrent.Executors;
import java.util.concurrent.ScheduledExecutorService;

```

```

import java.util.concurrent.TimeUnit;

/**
 * @scr.component name="org.wso2.stratos.permission.update.PermissionUpdateServiceComponent"
 * immediate="true"
 * @scr.reference name="registry.service"
 * interface="org.wso2.carbon.registry.core.service.RegistryService"
 * cardinality="1..1" policy="dynamic" bind="setRegistryService"
 * unbind="unsetRegistryService"
 * @scr.reference name="config.context.service"
 * interface="org.wso2.carbon.utils.ConfigurationContextService"
 * cardinality="1..1" policy="dynamic" bind="setConfigurationContextService"
 * unbind="unsetConfigurationContextService"
 */
public class PermissionUpdateServiceComponent {

    private static Log log = LogFactory.getLog(PermissionUpdateServiceComponent.class);
    private static final long JOB_INTERVAL_SECS = 1 * 60;

    private static final ScheduledExecutorService permUpdater = Executors.newScheduledThreadPool(1);
    private CarbonCoreDataHolder dataHolder = CarbonCoreDataHolder.getInstance();

    static {
        Runtime.getRuntime().addShutdownHook(new Thread() {
            public void run() {
                permUpdater.shutdownNow();
            }
        });
    }

    protected void activate(ComponentContext ctxt) {
        // register a listener for tenant creation events to sync their permission tree
        ctxt.getBundleContext().registerService(Axis2ConfigurationContextObserver.class.getName(),
            new PermissionUpdateAxis2ConfigurationContextObserver(),
            null);

        // update super-tenant permission cache
        PermissionUpdater.update(MultitenantConstants.SUPER_TENANT_ID);

        // Start a scheduled task for updating the permission tree periodically if it is enabled in the
        // user-mgt.xml.
        try {
            if ("true".equals(dataHolder.getRealmService().getBootstrapRealmConfiguration().
                getAuthorizationPropertyValue(
                    UserCoreConstants.RealmConfig.PROPERTY_UPDATE_PERM_TREE_PERIODICALLY))) {
                permUpdater.scheduleAtFixedRate(new PermissionUpdateTask(), JOB_INTERVAL_SECS,
                    JOB_INTERVAL_SECS, TimeUnit.SECONDS);
            }
        }
    }
}

```

```

    } catch (Exception e) {
        log.error("Error when retrieving the realm service for enabling the permission updater " +
            "task. Disabling the periodic permission update task", e);
    }

    if (log.isDebugEnabled()) {
        log.debug("***** PermissionUpdateServiceComponent is activated..*****");
    }
}

protected void deactivate(ComponentContext ctxt) {
    permUpdater.shutdownNow();
    if (log.isDebugEnabled()) {
        log.debug("PermissionUpdateServiceComponent is deactivated.");
    }
}

protected void setRegistryService(RegistryService registryService) {
    dataHolder.setRegistryService(registryService);
    if (log.isDebugEnabled()) {
        log.debug("Registry Service is set for PermissionUpdateServiceComponent.");
    }
}

protected void unsetRegistryService(RegistryService registryService) {
    dataHolder.setRegistryService(null);
}

protected void setConfigurationContextService(ConfigurationContextService contextService) {
    dataHolder.setMainServerConfigContext(contextService.getServerConfigContext());
}

protected void unsetConfigurationContextService(ConfigurationContextService contextService) {
    dataHolder.setMainServerConfigContext(null);
}
}
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```

```

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*/
package org.wso2.carbon.core.internal.permission.update;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.osgi.framework.BundleContext;
import org.osgi.util.tracker.ServiceTracker;
import org.wso2.carbon.core.internal.CarbonCoreDataHolder;
import org.wso2.carbon.registry.core.Resource;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.jdbc.realm.RegistryRealm;
import org.wso2.carbon.registry.core.service.RegistryService;
import org.wso2.carbon.registry.core.session.UserRegistry;
import org.wso2.carbon.user.core.AuthorizationManager;
import org.wso2.carbon.user.core.UserStoreException;
import org.wso2.carbon.user.core.authorization.JDBCAuthorizationManager;
import org.wso2.carbon.utils.AuthenticationObserver;

import java.util.concurrent.ConcurrentHashMap;

/**
 * This class is responsible for updating the permission caches of the tenants in the system
 */
public class PermissionUpdater {
    private static final Log log = LogFactory.getLog(PermissionUpdater.class);

    private static final String PERM_TREE_TIMESTAMP_LOC =
        "/repository/components/org.wso2.carbon.user.mgt/updatedTime";
    private static final String PERM_TREE_TIMESTAMP_PROP = "timestamp";

    /**
     * Map containing the tenantId -> lastModifiedTime
     */
    private static ConcurrentHashMap<Integer, Long>
        permTreeModifiedTimeStampMap = new ConcurrentHashMap<Integer, Long>();

    private static CarbonCoreDataHolder dataHolder = CarbonCoreDataHolder.getInstance();

    public PermissionUpdater() {
    }

    public static void update(int tenantId) {
        try {
            initializeRegistry(tenantId);
            RegistryService registryService = dataHolder.getRegistryService();
            AuthorizationManager authzManager = getAuthzManager(tenantId, registryService);

```



```

if (authzManager instanceof JDBCAuthorizationManager) {
    if (log.isDebugEnabled()) {
        log.debug("Updating permission cache for tenant: " + tenantId);
    }
    ((JDBCAuthorizationManager) authzManager).populatePermissionTreeFromDB();
}
UserRegistry registry = registryService.getGovernanceSystemRegistry(tenantId);
Long lastModifiedTime = System.currentTimeMillis();
if (registry.resourceExists(PERM_TREE_TIMESTAMP_LOC)) {
    Resource resource = registry.get(PERM_TREE_TIMESTAMP_LOC);
    lastModifiedTime =
        new Long(resource.getProperty(PERM_TREE_TIMESTAMP_PROP).trim());
} else {
    Resource resource = registry.newResource();
    resource.setProperty(PERM_TREE_TIMESTAMP_PROP,
        String.valueOf(lastModifiedTime));
    registry.put(PERM_TREE_TIMESTAMP_LOC, resource);
}
permTreeModifiedTimeStampMap.put(tenantId, lastModifiedTime);
log.info("Permission cache updated for tenant " + tenantId);
} catch (Exception e) {
    log.error("Error when updating the permission cache for tenant : " + tenantId, e);
}
}

private static AuthorizationManager getAuthzManager(int tenantId,
    RegistryService registryService)
    throws UserStoreException, RegistryException {
    AuthorizationManager authznManager =
        ((RegistryRealm) registryService.getUserRealm(tenantId)).
            getRealm().getAuthorizationManager();
    return authznManager;
}

public static void remove(int tenantId) {
    try {
        RegistryService registryService = dataHolder.getRegistryService();
        AuthorizationManager authzManager = getAuthzManager(tenantId, registryService);
        if (authzManager instanceof JDBCAuthorizationManager) {
            if (log.isDebugEnabled()) {
                log.debug("Updating permission cache for tenant: " + tenantId);
            }
            ((JDBCAuthorizationManager) authzManager).clearPermissionTree();
        }
        permTreeModifiedTimeStampMap.remove(tenantId);
    } catch (Exception e) {
        log.error("Error when clearing the permission cache for tenant : " + tenantId, e);
    }
}

```

```

    }
}

/**
 * Checks whether a tenant's permission cache needs to be updated
 *
 * @param tenantId The ID of the tenant
 * @return true - if the tenant's cache needs update, false - otherwise
 * @throws RegistryException If an error occurs when retrieving Registry resources
 */
public static boolean needsUpdating(int tenantId) throws Exception {
    RegistryService registryService = dataHolder.getRegistryService();
    UserRegistry registry = registryService.getGovernanceSystemRegistry(tenantId);

    if (!registry.resourceExists(PERM_TREE_TIMESTAMP_LOC)) {
        return false;
    }

    if (permTreeModifiedTimeStampMap.containsKey(tenantId)) {
        Resource resource = registry.get(PERM_TREE_TIMESTAMP_LOC);
        Long registryTimeStamp =
            new Long(resource.getProperty(PERM_TREE_TIMESTAMP_PROP).trim());
        Long localTimeStamp = permTreeModifiedTimeStampMap.get(tenantId);

        // If the permission tree is updated in registry
        return (localTimeStamp < registryTimeStamp);
    }
    return true;
}

private static void initializeRegistry(int tenantId) {
    BundleContext bundleContext = dataHolder.getBundleContext();
    if (bundleContext != null) {
        ServiceTracker tracker =
            new ServiceTracker(bundleContext,
                AuthenticationObserver.class.getName(), null);
        tracker.open();
        Object[] services = tracker.getServices();
        if (services != null) {
            for (Object service : services) {
                ((AuthenticationObserver) service).startedAuthentication(tenantId);
            }
        }
        tracker.close();
    }
}
}
}

```

```

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 */
package org.wso2.carbon.core.internal.permission.update;

import org.apache.axis2.context.ConfigurationContext;
import org.wso2.carbon.context.PrivilegedCarbonContext;
import org.wso2.carbon.utils.AbstractAxis2ConfigurationContextObserver;

/**
 * This OSGi service will take care of updating the permission cache when tenants are lazily loaded
 * & unloaded.
 */
public class PermissionUpdateAxis2ConfigurationContextObserver extends
    AbstractAxis2ConfigurationContextObserver {

    public void createdConfigurationContext(ConfigurationContext configurationContext) {
        int tenantId = PrivilegedCarbonContext.getCurrentContext(configurationContext).getTenantId();
        PermissionUpdater.update(tenantId);
    }

    public void terminatingConfigurationContext(ConfigurationContext configCtx) {
        int tenantId = PrivilegedCarbonContext.getCurrentContext(configCtx).getTenantId();
        PermissionUpdater.remove(tenantId);
    }

    public void terminatedConfigurationContext(ConfigurationContext configCtx) {
        // Nothing to do
    }
}
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*/

```

```
package org.wso2.carbon.core.util;
```

```
import org.wso2.carbon.core.internal.permission.update.PermissionUpdater;
```

```

/**
 * This class is used to expose the functionality of updating the in memory permission tree
 * to the external bundles. This wraps the functionality of
 * org.wso2.carbon.core.internal.permission.update.PermissionUpdater class and expose it as utility
 * method.
 */

```

```
public class PermissionUpdateUtil {
```

```

/**
 * Holds the org.wso2.carbon.core.internal.permission.update.PermissionUpdater instance
 */

```

```
private static PermissionUpdater permissionUpdater = new PermissionUpdater();
```

```
private PermissionUpdateUtil(){
```

```
}
```

```

/**
 * Update the in-memory permission tree for the given tenant
 * @param tenantId ID of the tenant of which the permission tree should be updated.
 */

```

```

public static void updatePermissionTree(int tenantId){
    permissionUpdater.update(tenantId);
}

```

```
}
```

```
/*
```

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*/

```

```
package org.wso2.carbon.core.util;
```

```

import org.apache.axiom.om.OMAbstractFactory;
import org.apache.axiom.om.OMAttribute;
import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.OMFactory;
import org.apache.axiom.om.OMNamespace;
import org.apache.axiom.om.impl.builder.StAXOMBuilder;
import org.apache.axiom.om.impl.llom.factory.OMXMLBuilderFactory;
import org.apache.neethi.Policy;
import org.apache.neethi.PolicyEngine;
import org.apache.neethi.PolicyReference;
import org.apache.neethi.PolicyRegistry;
import org.wso2.carbon.utils.xml.XMLPrettyPrinter;

```

```

import javax.xml.stream.XMLInputFactory;
import javax.xml.stream.XMLOutputFactory;
import javax.xml.stream.XMLStreamException;
import javax.xml.stream.XMLStreamReader;
import javax.xml.stream.XMLStreamWriter;
import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;

```

```

public class PolicyUtil {
    private static final String EMPTY_POLICY =
        "<wsp:Policy xmlns:wsp=\"http://schemas.xmlsoap.org/ws/2004/09/policy\" />";

    public static OMElement getPolicyAsOMElement(Policy policy) {

        try {
            ByteArrayOutputStream baos = new ByteArrayOutputStream();
            XMLStreamWriter writer = XMLOutputFactory.newInstance().createXMLStreamWriter(baos);
            policy.serialize(writer);
            writer.flush();

```

```

    ByteArrayInputStream bais = new ByteArrayInputStream(baos.toByteArray());
    XMLStreamReader xmlStreamReader =
        XMLInputFactory.newInstance().createXMLStreamReader(bais);
    StAXOMBuilder staxOMBuilder =
        OMXMLBuilderFactory.createStAXOMBuilder(OMAbstractFactory.getOMFactory(),
            xmlStreamReader);
    return staxOMBuilder.getDocumentElement();

} catch (Exception ex) {
    throw new RuntimeException("can't convert the policy to an OMElement", ex);
}
}

public static String getPolicyAsString(Policy policy) {
    ByteArrayOutputStream outBuffer = new ByteArrayOutputStream();
    try {
        XMLStreamWriter writer =
            XMLOutputFactory.newInstance().createXMLStreamWriter(outBuffer);
        policy.serialize(writer);
        writer.flush();
        ByteArrayInputStream bais = new ByteArrayInputStream(outBuffer.toByteArray());
        XMLPrettyPrinter xmlPrettyPrinter = new XMLPrettyPrinter(bais);
        return xmlPrettyPrinter.xmlFormat();

    } catch (XMLStreamException e) {
        throw new RuntimeException("Serialization of Policy object failed " + e);
    }
}

public static Policy getPolicyFromOMElement(OMElement policyElement) {
    return PolicyEngine.getPolicy(policyElement);
}

public static OMElement getEmptyPolicyAsOMElement() {
    ByteArrayInputStream bais = new ByteArrayInputStream(EMPTY_POLICY.getBytes());
    Policy policy = PolicyEngine.getPolicy(bais);

    return getPolicyAsOMElement(policy);
}

public static OMElement getWrapper(String name) {
    OMFactory fac = OMAbstractFactory.getOMFactory();
    OMNamespace namespace = fac.createOMNamespace("", name);
    OMElement element = fac.createOMElement("Policy", namespace);
    OMAAttribute attribute = fac.createOMAAttribute("name", namespace, name);
    element.addAttribute(attribute);
}

```

```

    return element;
}

public static String[] processPolicyElements(Iterator policyIterator, PolicyRegistry registry) {
    List policyList = new ArrayList();
    while (policyIterator.hasNext()) {
        Object value = policyIterator.next();

        if (value instanceof Policy) {
            Policy policy = (Policy) value;
            policyList.add(PolicyUtil.getPolicyAsString(policy));
        } else if (value instanceof PolicyReference) {

            PolicyReference policyReference = (PolicyReference) value;
            Policy policy = registry.lookup(policyReference.getURI());

            if (policy == null) {
                throw new RuntimeException(policyReference.getURI() +
                    " cannot be resolved");
            }
            policyList.add(PolicyUtil.getPolicyAsString(policy));
        }
    }

    return (String[]) policyList.toArray(new String[policyList.size()]);
}
}
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 */

package org.wso2.carbon.core.services.echo;

import java.util.Arrays;

```

```

/**
 * Simple bean used in the echo service
 */
public class SimpleBean {
    private String[] a_r;
    private String[] b_r;
    private int c;

    public String[] getA_r() {
        return Arrays.copyOf(a_r, a_r.length);
    }

    public void setA_r(String[] a_r) {
        this.a_r = Arrays.copyOf(a_r, a_r.length);
    }

    public String[] getB_r() {
        return Arrays.copyOf(b_r, b_r.length);
    }

    public void setB_r(String[] b_r) {
        this.b_r = Arrays.copyOf(b_r, b_r.length);
    }

    public int getC() {
        return c;
    }

    public void setC(int c) {
        this.c = c;
    }
}
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```



```

*/
package org.wso2.carbon.core.clustering.hazelcast;

import com.hazelcast.core.HazelcastInstance;
import com.hazelcast.core.ITopic;
import com.hazelcast.core.Member;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.core.clustering.api.CarbonCluster;
import org.wso2.carbon.core.clustering.api.ClusterMember;
import org.wso2.carbon.core.clustering.api.ClusterMembershipListener;
import org.wso2.carbon.core.clustering.api.ClusterMessage;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

/**
 * TODO: class description
 */
public class HazelcastCarbonClusterImpl implements CarbonCluster {
    private static final Log log = LogFactory.getLog(HazelcastCarbonClusterImpl.class);

    private HazelcastInstance hazelcastInstance;
    private List<ClusterMembershipListener> membershipListeners = new ArrayList<ClusterMembershipListener>();
    private List<ClusterMember> primaryClusterMembers = new ArrayList<ClusterMember>();

    public HazelcastCarbonClusterImpl(HazelcastInstance hazelcastInstance) {
        this.hazelcastInstance = hazelcastInstance;
    }

    @Override
    public List<ClusterMember> getClusterMembers() {
        return Collections.unmodifiableList(primaryClusterMembers);
    }

    @Override
    public void addMembershipListener(ClusterMembershipListener membershipListener) {
        membershipListeners.add(membershipListener);
    }

    @Override
    public void removeMembershipListener(ClusterMembershipListener membershipListener) {
        membershipListeners.remove(membershipListener);
    }

    @Override
    public void sendMessage(ClusterMessage clusterMessage) {

```

```

//TODO
}

@Override
public void sendMessage(ClusterMessage clusterMessage, List<ClusterMember> members) {
    for (ClusterMember member : members) {
        ITopic<ClusterMessage> msgTopic =
hazelcastInstance.getTopic(HazelcastConstants.REPLAY_MESSAGE_QUEUE + member.getId());
        msgTopic.publish(clusterMessage);
    }
}

public void memberAdded(Member member) {
    ClusterMember clusterMember = HazelcastUtil.toClusterMember(member);
    for (ClusterMembershipListener membershipListener : membershipListeners) {
        membershipListener.memberAdded(clusterMember);
    }
    primaryClusterMembers.add(clusterMember);
}

public void memberRemoved(Member member) {
    ClusterMember clusterMember = HazelcastUtil.toClusterMember(member);
    for (ClusterMembershipListener membershipListener : membershipListeners) {
        membershipListener.memberRemoved(clusterMember);
    }
    primaryClusterMembers.remove(clusterMember);
}

}
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*/

```

```

package org.wso2.carbon.core.session;

import org.apache.catalina.Manager;
import org.apache.catalina.ha.ClusterManager;
import org.apache.catalina.ha.tcp.SimpleTcpCluster;

/**
 * The class extends tomcat's SimpleTcpCluster. The main use of this class is to have our
 * implementation of DeltaManger(ClusterManager) to be used when standardContext class creates
 * managers for contexts
 */
public class CarbonTomcatSimpleTcpCluster extends SimpleTcpCluster{
    protected ClusterManager managerTemplate = new CarbonTomcatClusterableSessionManager();

    @Override
    public void setManagerTemplate(ClusterManager managerTemplate) {
        this.managerTemplate = managerTemplate;
    }

    @Override
    public ClusterManager getManagerTemplate() {
        return managerTemplate;
    }
    /**
     * Create new Manager without add to cluster (comes with start the manager)
     *
     * @param name
     * Context Name of this manager
     * @see org.apache.catalina.Cluster#createManager(java.lang.String)
     * @see org.apache.catalina.ha.session.DeltaManager#start()
     */
    @Override
    public synchronized Manager createManager(String name) {
        if (log.isDebugEnabled()) {
            log.debug("Creating ClusterManager for context " + name +
                " using class " + getManagerTemplate().getClass().getName());
        }
        Manager manager = null;
        try {
            manager = managerTemplate.cloneFromTemplate();
            ((ClusterManager)manager).setName(name);
        } catch (Exception x) {
            log.error("Unable to clone cluster manager, " +
                "defaulting to org.apache.catalina.ha.session.DeltaManager", x);
            manager = new org.apache.catalina.ha.session.DeltaManager();
        } finally {
            if ( manager != null && (manager instanceof ClusterManager))

```

```

        ((ClusterManager)manager).setCluster(this);
    }
    return manager;
}
}
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 */

package org.wso2.carbon.core.session;

import org.apache.axis2.clustering.ClusteringCommand;
import org.apache.axis2.clustering.ClusteringFault;
import org.apache.axis2.clustering.ClusteringMessage;
import org.apache.axis2.context.ConfigurationContext;
import org.apache.catalina.ha.ClusterMessage;
import org.apache.catalina.ha.session.SessionMessage;
import org.wso2.carbon.CarbonConstants;

import java.util.Map;
import java.util.Set;

/**
 * This is wrapper class which wraps tomcat's ClusterMessage in axis2's ClusteringMessage.
 * Since we are using axis2's tribes clustering communication to send cluster messages,
 * we have to wrap the tomcat cluster message, So that at receiving, side we can unwrap
 * the message and call the tomcat session manager to handle that received message.
 */

public class CarbonSessionReplicationMessage extends ClusteringMessage {

    ClusterMessage clusterMessage;

```

```

public CarbonSessionReplicationMessage() {
}

public void setSessionClusterMessage(ClusterMessage clusterMessage) {
    this.clusterMessage = clusterMessage;
}

@Override
public ClusteringCommand getResponse() {
    return new CarbonSessionReplicationMessage();
}

@Override
public void execute(ConfigurationContext configContext) throws ClusteringFault {
    if (clusterMessage != null) {
        //Process the received replication message
        Map<String, CarbonTomcatClusterableSessionManager> sessionManagerMap =
            (Map<String, CarbonTomcatClusterableSessionManager>) configContext.
                getProperty(CarbonConstants.TOMCAT_SESSION_MANAGER_MAP);
        if (sessionManagerMap != null && !sessionManagerMap.isEmpty() &&
            ((SessionMessage) clusterMessage).getContextName() != null) {
            String context = getWebappContext(((SessionMessage) clusterMessage).
                getContextName(), sessionManagerMap.keySet());
            if (context != null) {
                CarbonTomcatClusterableSessionManager manager = sessionManagerMap.get(context);
                if (manager != null) {
                    manager.clusterMessageReceived(clusterMessage);
                }
            }
        }
    }
}

private String getWebappContext(String path, Set<String> contextSet) {
    for (String key : contextSet) {
        if (path.contains(key)) {
            return key;
        }
    }
    return null;
}
}
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*/

```

```
package org.wso2.carbon.core.transports.util;
```

```

import org.apache.axis2.context.ConfigurationContext;
import org.apache.axis2.description.AxisService;
import org.apache.axis2.description.PolicyInclude;
import org.apache.axis2.util.ExternalPolicySerializer;
import org.apache.http.protocol.HTTP;
import org.apache.neethi.Policy;
import org.apache.neethi.PolicyReference;
import org.apache.neethi.PolicyRegistry;
import org.wso2.carbon.base.api.ServerConfigurationService;
import org.wso2.carbon.core.internal.CarbonCoreDataHolder;
import org.wso2.carbon.core.transports.CarbonHttpRequest;
import org.wso2.carbon.core.transports.CarbonHttpResponse;
import org.wso2.carbon.core.transports.HttpGetRequestProcessor;
import org.wso2.carbon.core.util.SystemFilter;
import org.wso2.carbon.utils.CarbonUtils;
import org.wso2.carbon.utils.NetworkUtils;
import org.wso2.carbon.utils.deployment.GhostDeployerUtils;

```

```

import java.io.OutputStream;
import java.util.ArrayList;

```

```

/**
*
*/

```

```

public class PolicyProcessor implements HttpGetRequestProcessor {

    public void process(CarbonHttpRequest request,
        CarbonHttpResponse response,
        ConfigurationContext configCtx) throws Exception {
        String requestURI = request.getRequestURI();
        String contextPath = configCtx.getServiceContextPath();
        String serviceName = requestURI.substring(requestURI.indexOf(contextPath) + contextPath.length() + 1);
        AxisService axisService =
            configCtx.getAxisConfiguration().getServiceForActivation(serviceName);
        OutputStream outputStream = response.getOutputStream();
        if (axisService != null) {

```

```

if (GhostDeployerUtils.isGhostService(axisService)) {
    // if the existing service is a ghost service, deploy the actual one
    axisService = GhostDeployerUtils.deployActualService(configCtx
        .getAxisConfiguration(), axisService);
}
if (!axisService.isActive()) {
    response.setHeader(HTTP.CONTENT_TYPE, "text/html");
    outputStream.write("<h4>Service " +
        serviceName +
        " is inactive. Cannot display policies.</h4>").getBytes());
    outputStream.flush();
} else {
    PolicyInclude policyInclude = axisService.getPolicyInclude();
    if (policyInclude == null) {
        response.setHeader(HTTP.CONTENT_TYPE, "text/html");
        outputStream.write("<h4>Policy element is not found!</h4>").getBytes());
        outputStream.flush();
        return;
    }
    ArrayList policyElements = policyInclude.getPolicyElements();

    if (policyElements == null) {
        response.setHeader(HTTP.CONTENT_TYPE, "text/html");
        outputStream.write("<h4>Policy elements not found!</h4>").getBytes());
        outputStream.flush();
        return;
    }

    PolicyRegistry reg = policyInclude.getPolicyRegistry();

    ExternalPolicySerializer serializer = new ExternalPolicySerializer();
    if (configCtx.getAxisConfiguration()
        .getLocalPolicyAssertions() != null) {
        serializer.setAssertionsToFilter(
            configCtx.getAxisConfiguration().getLocalPolicyAssertions());
    }

    if (policyElements.size() == 1) {
        response.setHeader(HTTP.CONTENT_TYPE, "text/xml");
        if (policyElements.get(0) instanceof Policy) {
            Policy policy = (Policy) policyElements.get(0);
            serializer.serialize(policy, outputStream);
        } else if (policyElements.get(0) instanceof PolicyReference) {
            String key = ((PolicyReference) policyElements.get(0)).getURI();
            if (key.startsWith("#")) {
                key = key.substring(key.indexOf('#') + 1);
            }
        }
    }
}

```

```

    }

    Policy p = reg.lookup(key);
    if (p == null) {
        response.addHeader(HTTP.CONTENT_TYPE, "text/html");
        outputStream.write("<h4>Policy element not found!</h4>".getBytes());
    } else {
        serializer.serialize(p, outputStream);
    }
}
} else {
    // for many policies
    String idParam = request.getParameter("id");
    if (idParam != null) {
        Object policyObject = policyElements.get(Integer.parseInt(idParam));
        if (policyObject != null) {
            response.addHeader(HTTP.CONTENT_TYPE, "text/xml");
            if (policyObject instanceof Policy) {
                Policy policy = (Policy) policyObject;
                serializer.serialize(policy, outputStream);
            } else if (policyObject instanceof PolicyReference) {
                String key = ((PolicyReference) policyObject).getURI();
                if (key.startsWith("#")) {
                    key = key.substring(key.indexOf('#') + 1);
                }
                Policy p = reg.lookup(key);
                if (p == null) {
                    response.addHeader(HTTP.CONTENT_TYPE, "text/html");
                    outputStream
                        .write("<h4>Policy element not found!</h4>".getBytes());
                } else {
                    serializer.serialize(p, outputStream);
                }
            }
        } else {
            response.addHeader(HTTP.CONTENT_TYPE, "text/html");
            outputStream.write("<h4>Policy not found!</h4>".getBytes());
        }
    } else {
        if (policyElements.size() == 0) {
            response.addHeader(HTTP.CONTENT_TYPE, "text/html");
            outputStream.write("<h4>Policy not found!</h4>".getBytes());
        } else {
            String ipAddress = "http://" + NetworkUtils.getLocalHostname() + ":" +
                CarbonUtils.getTransportPort(configCtx, "http");
            ServerConfigurationService serverCofig =
                CarbonCoreDataHolder.getInstance().getServerConfigurationService();
            outputStream.write("<html><head>" +

```


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1.597 org.wso2.carbon.core.services 4.2.0

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*
*/
package org.wso2.carbon.core.services.callback;

import org.wso2.carbon.registry.core.Registry;

import java.util.ArrayList;

public class LoginSubscriptionManagerServiceImpl implements LoginSubscriptionManagerService {
    ArrayList<LoginListener> subscriptions;

    public LoginSubscriptionManagerServiceImpl() {
        subscriptions = new ArrayList<LoginListener>();
    }

    public void subscribe(LoginListener listener) {
        subscriptions.add(listener);
    }

    public void triggerEvent(Registry configRegistry, String username, int tenantId, String tenantDomain) {
        for (int i = 0; i < subscriptions.size(); i++) {
            LoginEvent event = new LoginEvent();
            event.setTenantDomain(tenantDomain);
            event.setUsername(username);
            event.setTenantId(tenantId);
            subscriptions.get(i).onLogin(configRegistry, event);
        }
    }
}

```

1.598 org.wso2.carbon.databridge.agent.thrift

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*/
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public class DataSourceInformationRepositoryServiceImpl implements
    DataSourceInformationRepositoryService {

    public DataSourceInformationRepository getDataSourceInformationRepository() {
        return DataSourceManagementHandler.getInstance().getTenantDataSourceInformationManager().
            getRepository();
    }

}

```

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org.wso2.carbon.deployment.synchronizer

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*/

```

```

package org.wso2.carbon.deployment.synchronizer.internal;

import org.wso2.carbon.deployment.synchronizer.DeploymentSynchronizerException;
import org.wso2.carbon.deployment.synchronizer.internal.repository.CarbonRepositoryUtils;
import org.wso2.carbon.deployment.synchronizer.internal.util.DeploymentSynchronizerConfiguration;
import org.wso2.carbon.deployment.synchronizer.services.DeploymentSynchronizerService;
import org.wso2.carbon.utils.CarbonUtils;
import org.wso2.carbon.utils.deployment.GhostDeployerUtils;
import org.wso2.carbon.utils.multitenancy.MultitenantUtils;

public class DeploymentSynchronizerServiceImpl implements DeploymentSynchronizerService,
    org.wso2.carbon.core.deployment.DeploymentSynchronizer {

    private DeploymentSynchronizationManager syncManager = DeploymentSynchronizationManager.getInstance();

    public boolean synchronizerExists(String filePath) {
        return syncManager.getSynchronizer(filePath) != null;
    }

    public boolean isAutoCommitOn(String filePath) throws DeploymentSynchronizerException {
        DeploymentSynchronizer synchronizer = getSynchronizer(filePath);
        return synchronizer.isAutoCommit();
    }

    public boolean isAutoCheckoutOn(String filePath) throws DeploymentSynchronizerException {
        DeploymentSynchronizer synchronizer = getSynchronizer(filePath);
        return synchronizer.isAutoCheckout();
    }

    public long getLastCommitTime(String filePath) throws DeploymentSynchronizerException {
        DeploymentSynchronizer synchronizer = getSynchronizer(filePath);
        return synchronizer.getLastCommitTime();
    }

    public long getLastCheckoutTime(String filePath) throws DeploymentSynchronizerException {
        DeploymentSynchronizer synchronizer = getSynchronizer(filePath);
        return synchronizer.getLastCheckoutTime();
    }

    public boolean update(int tenantId) {
        try {
            DeploymentSynchronizerConfiguration configuration =
                CarbonRepositoryUtils.getActiveSynchronizerConfiguration(tenantId);

            //If Deployment Synchronization is disabled or autoCheckout is false, return false
            if(!configuration.isEnabled() || !configuration.isAutoCheckout()){
                return false;
            }
        }
    }
}

```

```

DeploymentSynchronizer synchronizer =
    getSynchronizer(MultitenantUtils.getAxis2RepositoryPath(tenantId));
if (synchronizer == null) {
    synchronizer =
        CarbonRepositoryUtils.newCarbonRepositorySynchronizer(tenantId);

    if(synchronizer == null){
        return false;
    }

    if (GhostDeployerUtils.isGhostOn() && GhostDeployerUtils.isPartialUpdateEnabled() &&
        CarbonUtils.isWorkerNode() && tenantId > 0) {
        synchronizer.syncGhostMetaArtifacts();
    } else {
        synchronizer.doInitialSyncUp();
    }
} else if (GhostDeployerUtils.isGhostOn() && GhostDeployerUtils.isPartialUpdateEnabled() &&
    CarbonUtils.isWorkerNode() && tenantId > 0) {
    return synchronizer.syncGhostMetaArtifacts();
}
return synchronizer.checkout();
} catch (DeploymentSynchronizerException e) {
    throw new RuntimeException(e);
}
}

public boolean commit(int tenantId) {

    try {
        DeploymentSynchronizerConfiguration configuration =
            CarbonRepositoryUtils.getActiveSynchronizerConfiguration(tenantId);

        //If Deployment Synchronization is disabled or autoCommit is false, return false
        if(!configuration.isEnabled() || !configuration.isAutoCommit()){
            return false;
        }
        DeploymentSynchronizer synchronizer =
            getSynchronizer(MultitenantUtils.getAxis2RepositoryPath(tenantId));
        if (synchronizer == null) {
            synchronizer =
                CarbonRepositoryUtils.newCarbonRepositorySynchronizer(tenantId);

            if(synchronizer == null){
                return false;
            }
            synchronizer.doInitialSyncUp();
        }
        return synchronizer.commit();
    }
}

```

```

    } catch (DeploymentSynchronizerException e) {
        throw new RuntimeException(e);
    }
}

public boolean checkout(String filePath) throws DeploymentSynchronizerException {
    DeploymentSynchronizer synchronizer = getSynchronizer(filePath);
    return synchronizer.checkout();
}

@Override
public boolean checkout(String filePath, int depth) throws DeploymentSynchronizerException {
    DeploymentSynchronizer synchronizer = getSynchronizer(filePath);
    return synchronizer.checkout(filePath, depth);
}

@Override
public boolean update(String rootPath, String filePath, int depth) throws DeploymentSynchronizerException {
    DeploymentSynchronizer synchronizer = getSynchronizer(rootPath);
    return synchronizer.update(rootPath, filePath, depth);
}

public boolean commit(String filePath) throws DeploymentSynchronizerException {
    DeploymentSynchronizer synchronizer = getSynchronizer(filePath);
    return synchronizer.commit();
}

@Override
public boolean commit(String rootPath, String filePath) throws DeploymentSynchronizerException {
    DeploymentSynchronizer synchronizer = getSynchronizer(rootPath);
    return synchronizer.commit(filePath);
}

private DeploymentSynchronizer getSynchronizer(String filePath)
    throws DeploymentSynchronizerException {

    DeploymentSynchronizer synchronizer = syncManager.getSynchronizer(filePath);
    if (synchronizer == null) {
        throw new DeploymentSynchronizerException("A repository synchronizer has not been " +
            "engaged for the file path: " + filePath);
    }
    return synchronizer;
}
}

```

1.603

org.wso2.carbon.deployment.synchronizer.git

4.2.1

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1.604

org.wso2.carbon.deployment.synchronizer.s ubversion 4.2.1

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 */
```

```
package org.wso2.carbon.deployment.synchronizer.subversion;
```

```
import org.apache.commons.logging.Log;
```

```

import org.apache.commons.logging.LogFactory;
import org.tigris.subversion.svnclientadapter.ISVNConflictResolver;
import org.tigris.subversion.svnclientadapter.SVNClientException;
import org.tigris.subversion.svnclientadapter.SVNConflictDescriptor;
import org.tigris.subversion.svnclientadapter.SVNConflictResult;

/**
 * Default conflict resolver attempts to resolve all SVN conflicts by accepting the artifact
 * versions in the remote repository.
 */
public class DefaultSVNConflictResolver implements ISVNConflictResolver {

    private static final Log log = LogFactory.getLog(DefaultSVNConflictResolver.class);

    public SVNConflictResult resolve(SVNConflictDescriptor conflict) throws SVNClientException {
        log.warn("SVN conflict encountered at: " + conflict.getPath() + " - Executing default" +
            " resolution action - " + "\"choose-theirs-full\"");
        return new SVNConflictResult(SVNConflictResult.chooseTheirsFull, conflict.getMergedPath());
    }
}

```

1.605 org.wso2.carbon.discovery.core 4.2.1

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1.606 org.wso2.carbon.discovery.stub 4.2.0

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1.607 org.wso2.carbon.discovery.ui 4.2.1

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1.608 org.wso2.carbon.ec2-client 4.2.0

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1.609 org.wso2.carbon.ec2-client.stub 4.2.0

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1.615 org.wso2.carbon.endpoint.ui 4.2.1

1.615.1 Available under license :

```
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```
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<% @ page import="org.apache.axiom.om.OMElement" %>
<% @ page import="org.apache.axiom.om.util.AXIOMUtil" %>
<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.wso2.carbon.endpoint.ui.client.EndpointAdminClient" %>
<% @ page import="org.wso2.carbon.endpoint.ui.endpoints.template.TemplateEndpoint" %>
<% @ page import="org.wso2.carbon.endpoint.ui.util.EndpointConfigurationHelper" %>
<% @ page import="org.wso2.carbon.mediation.templates.ui.EndpointTemplateAdminClient" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>
<% @ page import="javax.xml.stream.XMLStreamException" %>
<% @ page import="java.util.HashMap" %>
<% @ page import="java.util.Map" %>
<% @ page import="java.util.Set" %>
```

```
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>
```

```
<script type="text/javascript" src="../../yui/build/yahoo-dom-event/yahoo-dom-event.js"></script>
<script type="text/javascript" src="../../yui/build/container/container_core-min.js"></script>
<script type="text/javascript" src="../../yui/build/yahoo/yahoo-min.js"></script>
<script type="text/javascript" src="../../yui/build/event/event-min.js"></script>
<script type="text/javascript" src="../../yui/build/connection/connection-min.js"></script>
<script type="text/javascript" src="../../yui/build/menu/menu-min.js"></script>
<script type="text/javascript" src="../../resources/js/resource_util.js"></script>
<jsp:include page="../../resources/resources-i18n-ajaxprocessor.jsp"/>
<script type="text/javascript" src="../../ajax/js/prototype.js"></script>
<script type="text/javascript" src="../../js/registry-browser.js"></script>
```

```
<link rel="stylesheet" type="text/css" href="../../yui/build/container/assets/skins/sam/container.css">
<link type="text/css" href="../../dialog/js/jqueryui/tabs/ui.all.css" rel="stylesheet"/>
<script type="text/javascript"
    src="../../dialog/js/jqueryui/tabs/jquery-ui-1.6.custom.min.js"></script>
<script type="text/javascript" src="../../dialog/js/jqueryui/tabs/jquery.cookie.js"></script>
<script type="text/javascript" src="../../js/tabs.js"></script>
```

```
<script type="text/javascript" src="../../js/form.js"></script>
<script type="text/javascript" src="../../js/endpoint-util.js"></script>
<script type="text/javascript" src="../../js/template-param.js"></script>
<script type="text/javascript" src="../../js/endpoint-params.js"></script>
```

```

<script type="text/javascript" src="js/templateEndpoint-validate.js"></script>
<script type="text/javascript" src="js/common-tasks.js"></script>

<link rel="stylesheet" type="text/css" href="../../resources/css/registry.css"/>

<fmt:bundle basename="org.wso2.carbon.endpoint.ui.i18n.Resources">
<carbon:jsi18n
    resourceBundle="org.wso2.carbon.endpoint.ui.i18n.Resources"
    request="<%=request%>"/>

<carbon:breadcrumb
    label="template.endpoint"
    resourceBundle="org.wso2.carbon.endpoint.ui.i18n.Resources"
    topPage="false"
    request="<%=request%>"/>
<%
    String endpointName = request.getParameter("endpointName");
    String endpointAction = request.getParameter("endpointAction");
    String origin = request.getParameter("origin");

    boolean isAnonymous = false;
    String anonymousEndpointXML = null;
    String anonymousOriginator = null;
    String endpointMode = (String) session.getAttribute("epMode");
    if (endpointMode != null && "anon".equals(endpointMode)) {
        isAnonymous = true;
    }

    TemplateEndpoint endpoint = null;

    if (endpointAction != null && !"".equals(endpointAction) && endpointAction.equals("edit")) {
        try {
            session.setAttribute("action", "edit"); // uses when saving the endpoint

            String serverURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
            ConfigurationContext configContext =
                (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
            String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);

            EndpointAdminClient client;
            String endpointString;
            try {
                client = new EndpointAdminClient(cookie, serverURL, configContext);
                endpointString = client.getEndpoint(endpointName);
                OMElement endpointElement = AXIOMUtil.stringToOM(endpointString);
                endpoint = new TemplateEndpoint();

```

```

        endpoint.build(endpointElement, false);
    } catch (Exception e) {
        CarbonUIMessage.sendCarbonUIMessage(e.getMessage(), CarbonUIMessage.ERROR, request, e);
    }
%>
<script type="text/javascript">
    location.href = "../admin/error.jsp";
</script>
<%
    return;
}
} catch (Exception e) {
    String msg = "Unable to get Address Endpoint data: " + e.getMessage();
    CarbonUIMessage.sendCarbonUIMessage(msg, CarbonUIMessage.ERROR, request);
}
} else if (origin != null && !"".equals(origin)) {
    String epString = (String) session.getAttribute("endpointConfiguration");
    epString = epString.replaceAll("\\s\\s+|\\n\\r", ""); // remove the pretty printing from the string
    OMElement endpointElement = AXIOMUtil.stringToOM(epString);
    endpoint = new TemplateEndpoint();
    endpoint.build(endpointElement, isAnonymous);
} else if (isAnonymous) {
    // coming through using either send mediator or proxy services by adding an anonymous endpoint
    // we are in anonymous mode
    anonymousEndpointXML = (String) session.getAttribute("anonEpXML");
    anonymousOriginator = (String) session.getAttribute("anonOriginator");
    if (anonymousEndpointXML != null && !"".equals(anonymousEndpointXML)) {
        // if a user is here that mean user is trying to edit an existing anonymous endpoint
        try {
            OMElement endpointElement = AXIOMUtil.stringToOM(anonymousEndpointXML);
            endpoint = new TemplateEndpoint();
            endpoint.build(endpointElement, true);
        } catch (XMLStreamException e) {
            session.removeAttribute("anonEpXML");
        }
    }
%>
<script type="text/javascript">
    CARBON.showErrorDialog("Unable to create endpoint with given data");
    window.location.href = "loadBalanceEndpoint.jsp";
</script>
<%
    }
} else {
    endpoint = new TemplateEndpoint();
}
} else {
    endpoint = new TemplateEndpoint();
    session.setAttribute("action", "add");
}
}

```



```

String templateEpName = "";
String templateEndpointAddress = "";
String validAddressURL = "";
String target = "";
Map<String, String> parameterMap = new HashMap<String, String>();

if (endpoint != null) {
    parameterMap = endpoint.getParameters();
    // Endpoint Name
    if (parameterMap.containsKey("name")) {
        templateEpName = parameterMap.get("name");
    }
    // Endpoint Address
    if (parameterMap.containsKey("uri")) {
        templateEndpointAddress = parameterMap.get("uri");
        validAddressURL = EndpointConfigurationHelper.getValidXMLString(templateEndpointAddress);
    }
    // target Template
    if (endpoint.getTargetTemplate() != null) {
        target = endpoint.getTargetTemplate();
    }
}

Set<String> paramSet = parameterMap.keySet();
String propertyTableStyle = parameterMap.size() == 0 ? "display:none;" : "";

if (paramSet.size() == 1 || paramSet.size() == 2) {
    propertyTableStyle = "display:none;";
    for (String param : paramSet) {
        if (!param.equals("name") && !param.equals("uri")) {
            propertyTableStyle = "";
        }
    }
}

EndpointTemplateAdminClient templateAdminClient = new EndpointTemplateAdminClient(config, session);
String[] templateNameList = templateAdminClient.getAllTempalateNames();

%>

<div id="middle">
<h2>
<% if (request.getParameter("serviceName") != null) {
%><%=request.getParameter("serviceName")%>:&nbsp;<%
}
if ("edit".equals(endpointAction)) {
%><fmt:message key="edit.endpoint"/><%
} else {

```

```

%><fmt:message key="template.endpoint"/><%
  }
%>
</h2>
<div id="workArea">
<form action="updatePages/templateEndpoint-update.jsp" id="endpoint-editor-form"
  name="endpoint-editor-form">
<table class="styledLeft">
<thead>
<tr>
  <th><span style="float: left; position: relative; margin-top: 2px;">
    <fmt:message key="design.view.of.the.template.endpoint"/></span>
    <a class="icon-link"
      style="background-image: url(images/source-view.gif);"
      onclick="switchToSource('Template','<%=isAnonymous%>',false);"
      href="#"><fmt:message key="switch.to.source.view"/></a>
  </th>
</tr>
</thead>
<tbody>
<tr>
  <td>
    <table class="normal-nopadding">
      <tbody>

<tr style="<%=!isAnonymous?"" : "display:none"%>">
  <td width="180px"><fmt:message key="template.endpointName"/> <span
    class="required">*</span></td>
  <td><input name="endpointName" id="endpointName"
    value="<%=templateEpName%>"
    <%=(!"".equals(templateEpName)) ? "disabled=\"disabled\" : \"\"%>
    onkeypress="return validateText(event);"/>
    <input type="hidden" name="endpointName"
    value="<%=templateEpName%>"/>
  </td>
</tr>
<tr>
  <td class="leftCol-small"><fmt:message key="template.endpoint.address"/>
</td>
  <td><input id="address" name="address" type="text"
    value="<%=validAddressURL%>" size="75"/>
    <input id="testAddress" name="testAddress" type="button"
    class="button"
    onclick="testURL(document.getElementById('address').value)"
    value="<fmt:message key="test.url"/>"/>
  </td>
</tr>
</tr>
</tbody>
</table>

```

```

<td width="180px"><fmt:message key="template.endpoint.target"/> <span
  class="required">*</span>
</td>
<td>
  <input class="longInput" type="text" id="target.template"
    name="target.template"
    value="<%=target%>"/>
</td>
</tr>
<tr>
<td>
  <fmt:message key="template.available.templates"/>
</td>
<td>
  <select name="templateSelector" id="templateSelector" onchange="onTemplateSelectionChange()">
    <option value="default">Select From Templates</option>
    <%
      if (templateNameList != null) {
        for (String templateName : templateNameList) { %>
          <option value="<%=templateName%>"><%=templateName%></option>
        <%
          }
        }
      %>
    </select>
</td>
</tr>
<tr>
<td colspan="2">
  <div style="margin-top:0px;">
    <table id="propertytable" style="<%=propertyTableStyle%>," name="propertytable"
      class="styledLeft">
      <thead>
      <tr>
        <td colspan="3" class="sub-header"><fmt:message
          key="parameters"/></td>
      </tr>
      <tr>
        <th width="15%"><fmt:message
          key="th.parameter.name"/></th>
        <th width="15%"><fmt:message
          key="th.parameter.value"/></th>
        <th><fmt:message key="th.action"/></th>
      </tr>
      <tbody id="propertytbody">
      <%

```

```

int i = 0;
for (String param : paramSet) {
    String paramName = param;
    String paramValue = parameterMap.get(paramName);
    if (paramName.equals("name") || paramName.equals("uri")) { // hide default parameters
        continue;
    }
}%>
<tr id="propertyRow<%=i%>">
    <td><input type="text" name="propertyName<%=i%>"
        id="propertyName<%=i%>"
        class="esb-edit small_textbox"
        value="<%=paramName%>"/>
    </td>
    <td><input type="text" name="propertyValue<%=i%>"
        id="propertyValue<%=i%>"
        value="<%=paramValue%>"/>
    </td>
    <td><a href="#" class="delete-icon-link"
        onclick="deleteProperty(<%=i%>)"><fmt:message
        key="template.parameter.delete"/></a></td>
</tr>
<%
    i++;
}%>
<input type="hidden" name="propertyCount" id="propertyCount"
    value="<%=i%>"/>
</tbody>
</thead>
</table>
</div>
</td>
</tr>
<tr>
<td>
    <div style="margin-top:10px;">
        <a name="addNameLink"></a>
        <a class="add-icon-link"
            href="#addNameLink"
            onclick="addParameter(true)"><fmt:message
                key="template.parameter.add"/></a>
    </div>
</td>
</tr>
</tbody>
</table>
<table class="normal-nopadding">
<tbody>

```



```

        </td>
    </tr>
    <tr>
        <td>Key
        <span class="required">*</span>
    </td>
        <td><span id="reg">conf:</span><input type="text"
            size="75"
            id="synRegKey"/>
        </td>
    </tr>
</table>
</td>
</tr>
<tr>
    <td class="buttonRow">
        <input type="button" class="button"
            value="<fmt:message key="save"/>" id="saveSynRegButton"
            onclick="javascript:submitDynamicEndpointData('Template','false'); return false;"/>
        <input type="button" class="button"
            value="<fmt:message key="cancel"/>"
            id="cancelSynRegButton"
            onclick="javascript:showSaveAsForm(false,false); return false;"/>
    </td>
</tr>
</tbody>
</table>
</div>
</td>
</tr>
</tbody>
</table>
</div>
</div>
<a name="registryBrowserLink"></a>

</fmt:bundle>
<!--
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-->

```
<% @ page import="org.apache.axiom.om.OMElement" %>  
<% @ page import="org.wso2.carbon.endpoint.ui.endpoints.template.TemplateEndpoint" %>
```

```
<%  
    TemplateEndpoint endpoint = new TemplateEndpoint();  
    String endpointName = request.getParameter("endpointName");  
    String address = request.getParameter("address");  
    String targetTemplate = request.getParameter("target.template");  
  
    if (endpointName != null & !"".equals(endpointName.trim())) {  
        endpoint.addParameter("name", endpointName.trim());  
    }  
    if (address != null) {  
        endpoint.addParameter("uri", address.trim());  
    }  
    if (targetTemplate != null) {  
        endpoint.setTargetTemplate(targetTemplate.trim());  
    }  
    int paramCount = Integer.parseInt(request.getParameter("propertyCount"));  
    for (int i = 0; i < paramCount; i++) {  
        String paramName = request.getParameter("propertyName" + i);  
        String paramValue = request.getParameter("propertyValue" + i);  
        if (paramName != null && paramValue != null && !"".equals(paramName.trim())) {  
            endpoint.addParameter(paramName.trim(), paramValue.trim());  
        }  
    }  
}
```

```
    OMElement endpointElement = endpoint.serialize(null);  
    session.setAttribute("endpointConfiguration", endpointElement.toString());  
%>
```

```
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```

*/
function addParameter(addParamWithValue) {

    /*
    if (!isValidProperties(nameemptymsg, valueemptymsg)) {
    return false;
    }
    */
    var propertyCount = document.getElementById("propertyCount");
    var i = propertyCount.value;
    var currentCount = parseInt(i);

    // handleParamAdd('template', currentCount);
    currentCount = currentCount + 1;

    propertyCount.value = currentCount;

    var propertytable = document.getElementById("propertytable");
    propertytable.style.display = "";
    var propertytbody = document.getElementById("propertytbody");

    var propertyRaw = document.createElement("tr");
    propertyRaw.setAttribute("id", "propertyRaw" + i);

    var nameTD = document.createElement("td");
    nameTD.innerHTML = "<input type='text' name='propertyName" + i + "' id='propertyName" + i + "' +
        "class='esb-edit small_textbox' />";

    var deleteTD = document.createElement("td");
    deleteTD.innerHTML = "<a href='#' class='delete-icon-link' onclick='deleteProperty(" + i + ")'>" +
        jsi18n["template.parameter.delete"] + "</a>";
    // deleteTD.innerHTML = "<a href='#' class='delete-icon-link' onclick='deleteproperty(" + i + ");return false;'>" +
    logi18n["mediator.log.action.delete"] + "</a>";

    propertyRaw.appendChild(nameTD);

    if(addParamWithValue){
        var valueTD = document.createElement("td");
        valueTD.innerHTML = "<input type='text' name='propertyValue" + i + "' id='propertyValue" + i + "' +
            "/>";
        propertyRaw.appendChild(valueTD);
    }
}

```



```

propertyRaw.appendChild(deleteTD);

propertytbody.appendChild(propertyRaw);
return true;
}

function deleteProperty(i) {
    var propRow = document.getElementById("propertyRaw" + i);
    var propName = document.getElementById("propertyName" + i);
    if (propRow != undefined && propRow != null) {
        var parentTBody = propRow.parentNode;
        if (parentTBody != undefined && parentTBody != null) {
            parentTBody.removeChild(propRow);
            if (!isContainRaw(parentTBody)) {
                var propertyTable = document.getElementById("propertytable");
                propertyTable.style.display = "none";
            }
        }
    }
}

function isContainRaw(tbody) {
    if (tbody.childNodes == null || tbody.childNodes.length == 0) {
        return false;
    } else {
        for (var i = 0; i < tbody.childNodes.length; i++) {
            var child = tbody.childNodes[i];
            if (child != undefined && child != null) {
                if (child.nodeName == "tr" || child.nodeName == "TR") {
                    return true;
                }
            }
        }
    }
    return false;
}

function handleParamAdd(templateName, count) {
    var propertyReqStr = "";
    i = 0;
    j = 0;
    for (i = 0; i < count; i++) {
        var paramElem = document.getElementById("propertyName" + i);
        if (paramElem != null) {
            var paramName = paramElem.value;
            if (paramName != null && paramName != "") {

```

```

        propertyReqStr = propertyReqStr + "&param" + j + "=" + paramName;
        j++;
    }
}
}
jQuery.ajax({
    type: 'POST',
    url: '../templates/process_template_params-ajaxprocessor.jsp',
    data: 'paramCount=' + (j + 1) + propertyReqStr,
    success: function(msg) {
        handleSuccess(msg);
    },
    error: function(msg) {
//          CARBON.showErrorDialog('<fmt:message key="template.trace.enable.link"/>' +
//          '' + templateName);
    }
});
}

```

```

function getParamCount() {
    var propertyCount = document.getElementById("propertyCount");
    var i = propertyCount.value;
    return parseInt(i);
}

```

```

function handleSuccess(msg) {

```

```

}

```

```

/*

```

```

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```

```

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```

```

*/

```

```

function validateTemplateEndpoint(isAnonymous,isFromTemplateEditor) {

```

```

    if (isAnonymous == 'false' && isEmptyField('endpointName')) {

```

```

        CARBON.showWarningDialog(jsi18n['name.field.cannot.be.empty']);

```

```

        return false;
    }
}

```

```

    }
    /*if (isEmptyField('address')) {
        CARBON.showWarningDialog(jsi18n['address.field.cannot.be.empty']);
        return false;
    }*/
    if (isEmptyField('target.template')) {
        CARBON.showWarningDialog(jsi18n['target.template.empty.error']);
        return false;
    }
    return true;
}
<% @ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1" %>
<%--
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~ limitations under the License.
--%>

<% @ page import="org.apache.synapse.endpoints.Template" %>
<% @ page import="org.wso2.carbon.mediation.templates.ui.EndpointTemplateAdminClient" %>
<% @ page import="java.util.List" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>

<fmt:bundle basename="org.wso2.carbon.endpoint.ui.i18n.Resources">

<%
    EndpointTemplateAdminClient templateAdminClient
        = new EndpointTemplateAdminClient(this.getServletConfig(), session);

    String templateName = request.getParameter("templateSelect");
    Template template = templateAdminClient.getTemplate(templateName);
    List<String> paramSet = template.getParameters();
%>

<%
    int i = 0;
    for (String paramName : paramSet) {

```

```

        String paramValue = "";
        if (paramName.equals("name") || paramName.equals("uri")) { // hide default parameters
            continue;
        }
    }%>
<tr id="propertyRaw<%=i%>">
    <td><input type="text" name="propertyName<%=i%>"
        id="propertyName<%=i%>"
        class="esb-edit small_textbox"
        value="<%=paramName%>" />
    </td>
    <td><input type="text" name="propertyValue<%=i%>"
        id="propertyValue<%=i%>"
        value="<%=paramValue%>" />
    </td>
    <td><a href="#" class="delete-icon-link"
        onclick="deleteProperty(<%=i%>)"><fmt:message
        key="template.parameter.delete" /></a></td>
</tr>
<%
    i++;
} %>
<input type="hidden" name="propertyCount" id="propertyCount"
    value="<%=i%>" />

</fmt:bundle>
<!--
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~ under the License.
-->
<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.wso2.carbon.endpoint.ui.client.EndpointAdminClient" %>
<% @ page import="org.wso2.carbon.mediation.templates.ui.EndpointTemplateAdminClient" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>

```

```

<% @ page import="org.wso2.carbon.utils.ServerConstants" %>

<%
    boolean isAnonymous = false;
    String forwardTo = "../endpoints/index.jsp?region=region1&item=endpoints_menu&tabs=0";
    boolean isError = false;

    // template
    boolean isFromTemplateEditor = session.getAttribute("endpointTemplate") != null ? true : false;
    boolean isTemplateRegMode = false;
    if (isFromTemplateEditor) {
        forwardTo = "../templates/list_templates.jsp?region=region1&item=templates_menu#tabs-3";
        String epMode = (String) session.getAttribute("epMode");
        isTemplateRegMode = session.getAttribute("templateEditingMode") != null ? true : false;
        if (epMode != null && "anon".equals(epMode)) {
            session.removeAttribute("epMode");
        }
    }

    // isAnonymous
    String anonymousOriginator = null;
    String endpointMode = (String) session.getAttribute("epMode");
    if (endpointMode != null && "anon".equals(endpointMode)) {
        isAnonymous = true;
        isFromTemplateEditor = false;
        anonymousOriginator = (String) session.getAttribute("anonOriginator");
    }
    String configuration = (String) session.getAttribute("endpointConfiguration");
    String endpointAction = (String) session.getAttribute("action");

    if (endpointMode == null && !isTemplateRegMode) {
        try {
            if (endpointAction != null && endpointAction.equals("edit") && !"".equals(endpointAction)) {
                if (!isFromTemplateEditor) {
                    String serverURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
                    ConfigurationContext configContext;
                    configContext = (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
                    String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
                    EndpointAdminClient client = new EndpointAdminClient(cookie, serverURL, configContext);
                    // save an existing one
                    client.saveEndpoint(configuration);
                } else {
                    //editing a endpoint template
                    EndpointTemplateAdminClient templateClient = new EndpointTemplateAdminClient(config, session);
                    templateClient.saveTemplate(configuration);
                }
            } else {

```

```

        if (!isFromTemplateEditor) {
            String serverURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
            ConfigurationContext configContext;
            configContext = (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
            String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
            EndpointAdminClient client = new EndpointAdminClient(cookie, serverURL, configContext);
            //add a new endpoint
            client.addEndpoint(configuration);
        } else {
            //add new endpoint template
            session.removeAttribute("hasDuplicateTemplateEndpoint");
            EndpointTemplateAdminClient templateClient = new EndpointTemplateAdminClient(config, session);

            if (templateClient.hasDuplicateTemplateEndpoint(configuration)) {
                session.setAttribute("hasDuplicateTemplateEndpoint", "true");
            } else {
                templateClient.addTemplate(configuration);
                session.setAttribute("hasDuplicateTemplateEndpoint", "false");
            }
        }
    }
} catch (Exception e) {
    isError = true;
    String errMsg = e.getMessage();
    errMsg = errMsg.replace("\", ""); // this is to ensure that error message doesn't have ' or " marking
unterminated strings
    errMsg = errMsg.replace("\'", "");
    errMsg = errMsg.replace("\n", "");

%>
<div>Error:</div><%=errMsg%>
<%
    return;
}
} else if (isAnonymous) {
    // coming through using either send mediator or proxy services by adding an anonymous endpoint
    session.setAttribute("anonEpXML", configuration);
    forwardTo = anonymousOriginator + "?originator=../endpoints/submitEndpoint.jsp";

    if (anonymousOriginator.startsWith("../sequences")) {
        forwardTo = forwardTo + "&region=region1&item=sequences_menu";
    } else if (anonymousOriginator.startsWith("../proxy")) {
        forwardTo = forwardTo + "&region=region1&item=proxy_services_menu";
    }
}

} else if (isTemplateRegMode) {
    session.setAttribute("anonEpXML", configuration);

```

```

        forwardTo = "dynamicEndpoint.jsp" + "?originator=../endpoints/submitEndpoint.jsp";
    }
    session.removeAttribute("endpointConfiguration");
    session.removeAttribute("action");
%>

<div>FwdTo:</div><%=forwardTo%>
<!--
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~ under the License.
-->
<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.wso2.carbon.endpoint.ui.client.EndpointAdminClient" %>
<% @ page import="org.wso2.carbon.mediation.templates.ui.EndpointTemplateAdminClient" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>

<%
    String forwardTo = "index.jsp?tabs=1";
    boolean isError = false;

    String keyName = request.getParameter("regKey");
    String registry = request.getParameter("registry");
    if ("conf".equals(registry)) {
        keyName = "conf:" + request.getParameter("regKey");
    } else if ("gov".equals(registry)) {
        keyName = "gov:" + request.getParameter("regKey");
    }
    boolean updateSynapseReg = false;
    if ("true".equals(request.getParameter("updateSynapseReg"))) {
        updateSynapseReg = true;
    }

    // template

```

```

boolean isFromTemplateEditor = session.getAttribute("endpointTemplate") != null ? true : false;
if (isFromTemplateEditor) {
    forwardTo = "../templates/list_templates.jsp?region=region1&item=templates_menu#tabs-4";
    String epMode = (String) session.getAttribute("epMode");
    if (epMode != null && "anon".equals(epMode)) {
        session.removeAttribute("epMode");
    }
}

// isAnonymous
String endpointMode = (String) session.getAttribute("epMode");
if (endpointMode != null && "anon".equals(endpointMode)) {
    String errMsg = "Unable to save to the Synapse registry in the current mode";
%>
<div>Error:</div><%=errMsg%>
<%
    return;
}

if (keyName == null) {
    String errMsg = "Registry key must not be empty";
%>
<div>Error:</div><%=errMsg%>
<%
    return;
}

String configuration = (String) session.getAttribute("endpointConfiguration");

if (endpointMode == null) {
    try {
        if (updateSynapseReg) {
            if (!isFromTemplateEditor) {
                String serverURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
                ConfigurationContext configContext;
                configContext = (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
                String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
                EndpointAdminClient client = new EndpointAdminClient(cookie, serverURL, configContext);

                // save an existing one
                client.saveDynamicEndpoint(keyName, configuration);
            } else {
                //editing a endpoint template
                EndpointTemplateAdminClient templateClient = new EndpointTemplateAdminClient(config, session);
                templateClient.saveDynamicTemplate(keyName, configuration);
            }
        } else {

```



```

//add a new endpoint
if (!isFromTemplateEditor) {
    String serverURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
    ConfigurationContext configContext;
    configContext = (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
    String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
    EndpointAdminClient client = new EndpointAdminClient(cookie, serverURL, configContext);

    //add a new endpoint
    client.addDynamicEndpoint(keyName, configuration);
} else {
    //add new endpoint template
    EndpointTemplateAdminClient templateClient = new EndpointTemplateAdminClient(config, session);
    templateClient.addDynamicTemplate(keyName, configuration);
}
}
} catch (Exception e) {
    isError = true;
    String errMsg = e.getMessage();
    errMsg = errMsg.replace("\"", ""); // this is to ensure that error message doesn't have ' or " marking
unterminated strings
    errMsg = errMsg.replace("\'", "");
    errMsg = errMsg.replace("\n", "");
%>
<div>Error:</div><%=errMsg%>
<%
    return;
}
}
%>
<div>FwdTo:</div><%=forwardTo%>
/*
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```

```

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*/

package org.wso2.carbon.endpoint.ui.factory;

import org.apache.axiom.om.OMAttribute;
import org.apache.axiom.om.OMElement;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.synapse.SynapseConstants;
import org.apache.synapse.SynapseException;
import org.apache.synapse.config.xml.XMLConfigConstants;
import org.apache.synapse.config.xml.endpoints.EndpointDefinitionFactory;
import org.apache.synapse.endpoints.EndpointDefinition;
import org.wso2.carbon.endpoint.ui.util.TemplateParameterContainer;

import javax.xml.namespace.QName;
import java.util.StringTokenizer;

public class TemplateDefinitionFactory extends EndpointDefinitionFactory{
    public static final Log log = LogFactory.getLog(TemplateDefinitionFactory.class);
    TemplateParameterContainer instance;

    public TemplateDefinitionFactory(){
        instance = new TemplateParameterContainer();
    }

    public TemplateParameterContainer getParameterContainer(){
        return instance;
    }
}

/**
 * Extracts the QoS information from the XML which represents a WSDL/Address/Default endpoints
 * for Template endpoints
 * @param elem XML which represents the endpoint with QoS information
 * @return the created endpoint definition
 */
public EndpointDefinition createDefinition(OMElement elem) {
    EndpointDefinition definition = new EndpointDefinition();

    OMAttribute optimize
        = elem.getAttribute(new QName(XMLConfigConstants.NULL_NAMESPACE, "optimize"));
    OMAttribute encoding
        = elem.getAttribute(new QName(XMLConfigConstants.NULL_NAMESPACE, "encoding"));

    OMAttribute trace = elem.getAttribute(new QName(
        XMLConfigConstants.NULL_NAMESPACE, XMLConfigConstants.TRACE_ATTRIB_NAME));
    if (trace != null && trace.getAttributeValue() != null) {
        String traceValue = trace.getAttributeValue();

```

```

        if (XMLConfigConstants.TRACE_ENABLE.equals(traceValue)) {
            definition.setTraceState(SynapseConstants.TRACING_ON);
        } else if (XMLConfigConstants.TRACE_DISABLE.equals(traceValue)) {
            definition.setTraceState(SynapseConstants.TRACING_OFF);
        }
    } else {
        definition.setTraceState(SynapseConstants.TRACING_UNSET);
    }
}

if (optimize != null && optimize.getAttributeValue().length() > 0) {
    String method = optimize.getAttributeValue().trim();
    if ("mtom".equalsIgnoreCase(method)) {
        definition.setUseMTOM(true);
    } else if ("swa".equalsIgnoreCase(method)) {
        definition.setUseSwa(true);
    } else {
        TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.optimize, method );
    }
}

if (encoding != null && encoding.getAttributeValue() != null) {
    definition.setCharSetEncoding(encoding.getAttributeValue());
} else if (encoding != null) {
    TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.charSetEncoding, encoding.getAttributeValue());
}

OMElement wsAddr = elem.getFirstChildWithName(
    new QName(XMLConfigConstants.SYNAPSE_NAMESPACE, "enableAddressing"));
if (wsAddr != null) {

    definition.setAddressingOn(true);

    OMAttribute version = wsAddr.getAttribute(new QName("version"));
    if (version != null && version.getAttributeValue() != null) {
        String versionValue = version.getAttributeValue().trim().toLowerCase();
        if (SynapseConstants.ADDRESSING_VERSION_FINAL.equals(versionValue) ||
            SynapseConstants.ADDRESSING_VERSION_SUBMISSION.equals(versionValue)) {
            definition.setAddressingVersion(version.getAttributeValue());
            TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.addressingVersion, version.getAttributeValue());
        } else {
            handleException("Unknown value for the addressing version. Possible values " +
                "for the addressing version are 'final' and 'submission' only.");
        }
    }
}
}

```

```

String useSepList = wsAddr.getAttributeValue(new QName("separateListener"));
if (useSepList != null) {
    if ("true".equals(useSepList.trim().toLowerCase())) {
        definition.setUseSeparateListener(true);
    } else{
        TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.separateListener,
useSepList.trim().toLowerCase() );
    }
}
}

OMElement wsSec = elem.getFirstChildWithName(
    new QName(XMLConfigConstants.SYNAPSE_NAMESPACE, "enableSec"));
if (wsSec != null) {

    definition.setSecurityOn(true);

    OMAttribute policyKey = wsSec.getAttribute(
        new QName(XMLConfigConstants.NULL_NAMESPACE, "policy"));
    OMAttribute inboundPolicyKey = wsSec.getAttribute(
        new QName(XMLConfigConstants.NULL_NAMESPACE, "inboundPolicy"));
    OMAttribute outboundPolicyKey = wsSec.getAttribute(
        new QName(XMLConfigConstants.NULL_NAMESPACE, "outboundPolicy"));

    if (policyKey != null && policyKey.getAttributeValue() != null) {
        definition.setWsSecPolicyKey(policyKey.getAttributeValue());
        TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.policy, policyKey.getAttributeValue());
    } else {
        if (inboundPolicyKey != null && inboundPolicyKey.getAttributeValue() != null) {
            definition.setInboundWsSecPolicyKey(inboundPolicyKey.getAttributeValue());
            TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.inboundWsSecPolicyKey, inboundPolicyKey.getAttributeValue());
        }
        if (outboundPolicyKey != null && outboundPolicyKey.getAttributeValue() != null) {
            definition.setOutboundWsSecPolicyKey(outboundPolicyKey.getAttributeValue());
            TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.outboundWsSecPolicyKey,
outboundPolicyKey.getAttributeValue());
        }
    }
}

OMElement wsRm = elem.getFirstChildWithName(
    new QName(XMLConfigConstants.SYNAPSE_NAMESPACE, "enableRM"));
if (wsRm != null) {

```

```

definition.setReliableMessagingOn(true);

OMAttribute policy
    = wsRm.getAttribute(new QName(XMLConfigConstants.NULL_NAMESPACE, "policy"));
if (policy != null) {
    definition.setWsRMPolicyKey(policy.getAttributeValue());
    TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.wsRMPolicyKey, policy.getAttributeValue());
}
}

// set the timeout configuration
OMElement timeout = elem.getFirstChildWithName(
    new QName(XMLConfigConstants.SYNAPSE_NAMESPACE, "timeout"));
if (timeout != null) {
    OMElement duration = timeout.getFirstChildWithName(
        new QName(XMLConfigConstants.SYNAPSE_NAMESPACE, "duration"));

    if (duration != null) {
        String d = duration.getText();
        if (d != null) {
            try {
                //only set if not a template mapping
                if (!TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.timeoutDuration, d)) {
                    long timeoutMilliseconds = Long.parseLong(d.trim());
                    definition.setTimeoutDuration(timeoutMilliseconds);
                }
            } catch (NumberFormatException e) {
                handleException("Endpoint timeout duration expected as a " +
                    "number but was not a number");
            }
        }
    }
}

OMElement action = timeout.getFirstChildWithName(
    new QName(XMLConfigConstants.SYNAPSE_NAMESPACE, "responseAction"));
if (action != null && action.getText() != null) {
    String actionString = action.getText();
    if ("discard".equalsIgnoreCase(actionString.trim())) {

        definition.setTimeoutAction(SynapseConstants.DISCARD);

        // set timeout duration to 30 seconds, if it is not set explicitly
        if (definition.getTimeoutDuration() == 0) {
            definition.setTimeoutDuration(30000);
        }
    }
}

```

```

    } else if ("fault".equalsIgnoreCase(actionString.trim())) {

        definition.setTimeoutAction(SynapseConstants.DISCARD_AND_FAULT);

        // set timeout duration to 30 seconds, if it is not set explicitly
        if (definition.getTimeoutDuration() == 0) {
            definition.setTimeoutDuration(30000);
        }
        //if value is not even a template mapping handle as exception
    } else if(!TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.timeoutAction, actionString)) {
        handleException("Invalid timeout action, action : "
            + actionString + " is not supported");
    }
}
}

OMElement markAsTimedOut = elem.getFirstChildWithName(new QName(
    SynapseConstants.SYNAPSE_NAMESPACE,
    XMLConfigConstants.MARK_FOR_SUSPENSION));

if (markAsTimedOut != null) {

    OMElement timeoutCodes = markAsTimedOut.getFirstChildWithName(new QName(
        SynapseConstants.SYNAPSE_NAMESPACE,
        XMLConfigConstants.ERROR_CODES));
    //only set if not a template mapping
    if (timeoutCodes != null && timeoutCodes.getText() != null &&
        !TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.timeoutErrorCodes, timeoutCodes.getText())) {
        StringTokenizer st = new StringTokenizer(timeoutCodes.getText().trim(), ", ");
        while (st.hasMoreTokens()) {
            String s = st.nextToken();
            try {
                definition.addTimeoutErrorCode(Integer.parseInt(s));
            } catch (NumberFormatException e) {
                handleException("The timeout error codes should be specified " +
                    "as valid numbers separated by commas : " + timeoutCodes.getText(), e);
            }
        }
    }
}

OMElement retriesBeforeSuspend = markAsTimedOut.getFirstChildWithName(new QName(
    SynapseConstants.SYNAPSE_NAMESPACE,
    XMLConfigConstants.RETRIES_BEFORE_SUSPENSION));
//only set if not a template mapping
if (retriesBeforeSuspend != null && retriesBeforeSuspend.getText() != null &&
    !TemplateMappingsPopulator.populateMapping(instance,

```

```

TemplateParameterContainer.EndpointDefKey.retriesOnTimeoutBeforeSuspend, retriesBeforeSuspend.getText())
{
    try {
        definition.setRetriesOnTimeoutBeforeSuspend(
            Integer.parseInt(retriesBeforeSuspend.getText().trim()));
    } catch (NumberFormatException e) {
        handleException("The retries before suspend [for timeouts] should be " +
            "specified as a valid number : " + retriesBeforeSuspend.getText(), e);
    }
}

OMElement retryDelay = markAsTimedOut.getFirstChildWithName(new QName(
    SynapseConstants.SYNAPSE_NAMESPACE,
    XMLConfigConstants.RETRY_DELAY));
if (retryDelay != null && retryDelay.getText() != null &&
    !TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.retryDurationOnTimeout, retryDelay.getText())) {
    try {
        definition.setRetryDurationOnTimeout(
            Integer.parseInt(retryDelay.getText().trim()));
    } catch (NumberFormatException e) {
        handleException("The retry delay for timeouts should be specified " +
            "as a valid number : " + retryDelay.getText(), e);
    }
}
}

// support backwards compatibility with Synapse 1.2 - for suspendDurationOnFailure
OMElement suspendDurationOnFailure = elem.getFirstChildWithName(new QName(
    SynapseConstants.SYNAPSE_NAMESPACE, "suspendDurationOnFailure"));
if (suspendDurationOnFailure != null && suspendDurationOnFailure.getText() != null &&
    !TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.initialSuspendDuration, suspendDurationOnFailure.getText().trim())
) {

    log.warn("Configuration uses deprecated style for endpoint 'suspendDurationOnFailure'");
    try {
        definition.setInitialSuspendDuration(
            1000 * Long.parseLong(suspendDurationOnFailure.getText().trim()));
        definition.setSuspendProgressionFactor((float) 1.0);
    } catch (NumberFormatException e) {
        handleException("The initial suspend duration should be specified " +
            "as a valid number : " + suspendDurationOnFailure.getText(), e);
    }
}

OMElement suspendOnFailure = elem.getFirstChildWithName(new QName(
    SynapseConstants.SYNAPSE_NAMESPACE,

```

```

XMLConfigConstants.SUSPEND_ON_FAILURE));

if (suspendOnFailure != null) {

    OMElement suspendCodes = suspendOnFailure.getFirstChildWithName(new QName(
        SynapseConstants.SYNAPSE_NAMESPACE,
        XMLConfigConstants.ERROR_CODES));
    if (suspendCodes != null && suspendCodes.getText() != null &&
        !TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.suspendErrorCodes, suspendCodes.getText())) {

        StringTokenizer st = new StringTokenizer(suspendCodes.getText().trim(), ", ");
        while (st.hasMoreTokens()) {
            String s = st.nextToken();
            try {
                definition.addSuspendErrorCode(Integer.parseInt(s));
            } catch (NumberFormatException e) {
                handleException("The suspend error codes should be specified " +
                    "as valid numbers separated by commas : " + suspendCodes.getText(), e);
            }
        }
    }

    OMElement initialDuration = suspendOnFailure.getFirstChildWithName(new QName(
        SynapseConstants.SYNAPSE_NAMESPACE,
        XMLConfigConstants.SUSPEND_INITIAL_DURATION));
    if (initialDuration != null && initialDuration.getText() != null &&
        !TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.initialSuspendDuration, initialDuration.getText())) {
        try {
            definition.setInitialSuspendDuration(
                Integer.parseInt(initialDuration.getText().trim()));
        } catch (NumberFormatException e) {
            handleException("The initial suspend duration should be specified " +
                "as a valid number : " + initialDuration.getText(), e);
        }
    }

    OMElement progressionFactor = suspendOnFailure.getFirstChildWithName(new QName(
        SynapseConstants.SYNAPSE_NAMESPACE,
        XMLConfigConstants.SUSPEND_PROGRESSION_FACTOR));
    if (progressionFactor != null && progressionFactor.getText() != null &&
        !TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.suspendProgressionFactor, progressionFactor.getText())) {
        try {
            definition.setSuspendProgressionFactor(
                Float.parseFloat(progressionFactor.getText().trim()));
        } catch (NumberFormatException e) {

```



```

        handleException("The suspend duration progression factor should be specified " +
            "as a valid float : " + progressionFactor.getText(), e);
    }
}

OMElement maximumDuration = suspendOnFailure.getFirstChildWithName(new QName(
    SynapseConstants.SYNAPSE_NAMESPACE,
    XMLConfigConstants.SUSPEND_MAXIMUM_DURATION));
if (maximumDuration != null && maximumDuration.getText() != null &&
    !TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.suspendMaximumDuration, maximumDuration.getText()) ) {
    try {
        definition.setSuspendMaximumDuration(
            Long.parseLong(maximumDuration.getText().trim()));
    } catch (NumberFormatException e) {
        handleException("The maximum suspend duration should be specified " +
            "as a valid number : " + maximumDuration.getText(), e);
    }
}
}

OMElement retryConfig = elem.getFirstChildWithName(new QName(
    SynapseConstants.SYNAPSE_NAMESPACE, XMLConfigConstants.RETRY_CONFIG));

if (retryConfig != null) {

    OMElement retryDisabledErrorCodes = retryConfig.getFirstChildWithName(new QName(
        SynapseConstants.SYNAPSE_NAMESPACE, "disabledErrorCodes"));
    if (retryDisabledErrorCodes != null && retryDisabledErrorCodes.getText() != null &&
        !TemplateMappingsPopulator.populateMapping(instance,
TemplateParameterContainer.EndpointDefKey.retryDisabledErrorCodes, retryDisabledErrorCodes.getText())) {

        StringTokenizer st = new StringTokenizer(
            retryDisabledErrorCodes.getText().trim(), ", ");
        while (st.hasMoreTokens()) {
            String s = st.nextToken();
            try {
                definition.addRetryDisabledErrorCode(Integer.parseInt(s));
            } catch (NumberFormatException e) {
                handleException("The suspend error codes should be specified as valid " +
                    "numbers separated by commas : "
                    + retryDisabledErrorCodes.getText(), e);
            }
        }
    }
}

return definition;

```

```

}

protected static void handleException(String msg) {
    log.error(msg);
    throw new SynapseException(msg);
}

protected static void handleException(String msg, Exception e) {
    log.error(msg, e);
    throw new SynapseException(msg, e);
}
}
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 */
package org.wso2.carbon.endpoint.ui.factory;

import org.wso2.carbon.endpoint.ui.util.TemplateParameterContainer;

public class TemplateMappingsPopulator {

    public static boolean populateMapping(TemplateParameterContainer paramContainer,
TemplateParameterContainer.EndpointDefKey key, String value){
        if(isTemplateParam(value)){
            paramContainer.addTemplateMapping(key, value.trim());
            return true;
        }
        return false;
    }

    public static boolean isTemplateParam(String value){
        if(value!=null && value.trim().startsWith("$")){
            return true;
        }
    }
}

```

```

        return false;
    }
}
/*
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 */
package org.wso2.carbon.endpoint.ui.endpoints.template;

import org.apache.axiom.om.OMElement;
import org.apache.synapse.config.xml.endpoints.DefinitionFactory;
import org.apache.synapse.config.xml.endpoints.EndpointFactory;
import org.apache.synapse.config.xml.endpoints.TemplateEndpointSerializer;
import org.apache.synapse.endpoints.Template;
import org.wso2.carbon.endpoint.ui.endpoints.Endpoint;

import java.util.HashMap;
import java.util.Map;
import java.util.Properties;

public class TemplateEndpoint extends Endpoint {

    public String getTagLocalName() {
        return "template";
    }

    public String getEpName() {
        return epName;
    }

    public void setEpName(String epName) {
        this.epName = epName;
    }

    private String epName;

    public String getAddress() {

```

```

    return address;
}

public void setAddress(String address) {
    this.address = address;
}

private String address;
private String targetTemplate = null;

public Map<String, String> getParameters() {
    return parameters;
}

public void setParameters(Map<String, String> parameters) {
    this.parameters = parameters;
}

private Map<String, String> parameters = new HashMap<String, String>();

public String getTargetTemplate() {
    return targetTemplate;
}

public void setTargetTemplate(String targetTemplate) {
    this.targetTemplate = targetTemplate;
}

public void addParameter(String key, String value) {
    this.parameters.put(key, value);
}

public OMElement serialize(OMElement parent) {

    org.apache.synapse.endpoints.TemplateEndpoint templateEndpoint = new
org.apache.synapse.endpoints.TemplateEndpoint();
    if (targetTemplate != null) {
        templateEndpoint.setTemplate(targetTemplate.trim());
    }

    //parameters
    for (String key : parameters.keySet()) {
        templateEndpoint.addParameter(key, parameters.get(key));
    }

    OMElement endpoint = new TemplateEndpointSerializer().serializeEndpoint(templateEndpoint);

    if (parent != null) {

```

```

        parent.addChild(endpoint);
    }
    return endpoint;
}

public void build(OMElement elem, boolean isAnonymous) {
    if (isAnonymous) {
        elem.addAttribute("name", "anonymous", elem.getOMFactory().createOMNamespace("", ""));
    }
    org.apache.synapse.endpoints.TemplateEndpoint templateEndpoint =
(org.apache.synapse.endpoints.TemplateEndpoint) EndpointFactory.getEndpointFromElement(elem, isAnonymous,
new Properties());
    buildData(templateEndpoint);
}

// templates are not supported for this endpoint type
public void build(Template template, DefinitionFactory factory) {
}

private void buildData(org.apache.synapse.endpoints.TemplateEndpoint templateEndpoint) {
    if (templateEndpoint.getParameters() != null) {
        setParameters(templateEndpoint.getParameters());
    }
    setTargetTemplate(templateEndpoint.getTemplate());
}
}
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*/
package org.wso2.carbon.endpoint.ui.endpoints.template;

import org.wso2.carbon.endpoint.ui.endpoints.Endpoint;
import org.wso2.carbon.endpoint.ui.endpoints.EndpointService;

public class TemplateEndpointService implements EndpointService {

```

```

public Endpoint getEndpoint() {
    return new TemplateEndpoint();
}

public String getType() {
    return "template";
}

public String getUIPageName() {
    return "template";
}

public String getDescription() {
    return "Defines a template endpoint that can parameterfy endpoints ";
}

public String getDisplayName() {
    return "Template Endpoint";
}

public boolean isStatisticsAvailable() {
    return false;
}

public boolean canAddAsChild() {
    return false;
}

public boolean canAddAsTemplate() {
    return false;
}

public boolean isChildEndpointFormAvailable() {
    return false;
}

}
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```

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*/

```
package org.wso2.carbon.endpoint.ui.util;
```

```
import java.util.HashMap;
```

```
import java.util.Map;
```

```
public class TemplateParameterContainer {
```

```
    private Map<EndpointDefKey ,String> templateMappings = new HashMap<EndpointDefKey ,String>();
```

```
    public enum EndpointDefKey{
```

```
        address, reliableMessagingOn, addressingOn, addressingVersion, securityOn, wsRMPolicyKey,  
        wsSecPolicyKey, inboundWsSecPolicyKey, outboundWsSecPolicyKey, useSeparateListener,  
        optimize, format, charSetEncoding, retryDurationOnTimeout,  
        timeoutDuration, timeoutAction, initialSuspendDuration, suspendProgressionFactor,  
        suspendMaximumDuration, suspendErrorCodes, timeoutErrorCodes, retriesOnTimeoutBeforeSuspend,  
        separateListener, policy, retryDisabledErrorCodes
```

```
    }
```

```
    public void addTemplateMapping(EndpointDefKey key, String value) {
```

```
        templateMappings.put(key, value);
```

```
    }
```

```
    public String getTemplateMapping(EndpointDefKey key) {
```

```
        return templateMappings.get(key);
```

```
    }
```

```
    public boolean contains(EndpointDefKey key){
```

```
        return templateMappings.containsKey(key);
```

```
    }
```

```
}
```

1.616 org.wso2.carbon.event.admin 4.2.0

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1.617 org.wso2.carbon.event.client 4.2.0

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1.618 org.wso2.carbon.event.client.stub 4.2.0

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1.619 org.wso2.carbon.event.common 4.2.0

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1.620 org.wso2.carbon.event.core 4.2.1

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 */
```

```
package org.wso2.carbon.event.core.topic;
```

```
public class TopicRolePermission {

    private String roleName;
    private boolean isAllowedToSubscribe;
    private boolean isAllowedToPublish;

    public String getRoleName() {
        return roleName;
    }

    public void setRoleName(String roleName) {
        this.roleName = roleName;
    }

    public boolean isAllowedToSubscribe() {
        return isAllowedToSubscribe;
    }

    public void setAllowedToSubscribe(boolean allowedToSubscribe) {
        isAllowedToSubscribe = allowedToSubscribe;
    }

    public boolean isAllowedToPublish() {
        return isAllowedToPublish;
    }
}
```

```
}  
  
public void setAllowedToPublish(boolean allowedToPublish) {  
    isAllowedToPublish = allowedToPublish;  
}  
}
```

1.621 org.wso2.carbon.event.stub 4.2.0

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1.622 org.wso2.carbon.event.ui 4.2.0

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1.623 org.wso2.carbon.event.ws 4.2.1

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1.624 org.wso2.carbon.feature.mgt.core 4.2.0

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1.625 org.wso2.carbon.feature.mgt.services

4.2.0

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 */
```

```
package org.wso2.carbon.feature.mgt.services.prov.data;
```

```
public class CopyrightInfo {  
    private String body;  
    private String url;  
  
    public String getBody() {  
        return body;  
    }  
}
```

```

    }

    public void setBody(String body) {
        this.body = body;
    }

    public String getURL() {
        return url;
    }

    public void setURL(String url) {
        this.url = url;
    }
}
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    private String body;
    private String url;

    public String getBody() {
        return body;
    }

    public void setBody(String body) {
        this.body = body;
    }

    public String getURL() {
        return url;
    }

    public void setURL(String url) {

```

```
    this.url = url;
  }
}
```

1.626 org.wso2.carbon.feature.mgt.stub 4.2.0

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1.627 org.wso2.carbon.feature.mgt.ui 4.2.0

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1.628 org.wso2.carbon.framework.exporter

4.2.0

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1.629 org.wso2.carbon.google.analytics.ui

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1.630

org.wso2.carbon.governance.registry.extensions 4.2.0

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```

```
package org.wso2.carbon.governance.registry.extensions.beans;
```

```
import java.util.ArrayList;  
import java.util.List;
```

```

public class PermissionsBean {
    private List<String> roles;
    private String forEvent;

    public PermissionsBean() {
        this.roles = new ArrayList<String>();
        this.forEvent = "";
    }

    public String getForEvent() {
        return forEvent;
    }

    public void setForEvent(String forEvent) {
        this.forEvent = forEvent;
    }

    public List<String> getRoles() {
        return roles;
    }

    public void setRoles(List<String> roles) {
        this.roles = roles;
    }
}

```

1.631 org.wso2.carbon.i18n 4.2.0

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1.632

org.wso2.carbon.identity.authenticator.saml2

.sso 4.2.0

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```
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 */
package org.wso2.carbon.identity.authenticator.saml2.sso.util;

import org.opensaml.xml.security.credential.Credential;
import org.opensaml.xml.security.credential.CredentialContextSet;
import org.opensaml.xml.security.credential.UsageType;
import org.opensaml.xml.security.x509.X509Credential;

import javax.crypto.SecretKey;
import java.math.BigInteger;
import java.security.KeyFactory;
import java.security.NoSuchAlgorithmException;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.cert.X509CRL;
import java.security.cert.X509Certificate;
import java.security.spec.InvalidKeySpecException;
import java.security.spec.RSAPublicKeySpec;
import java.util.Collection;

/**
 * X509Credential implementation for signature verification of self issued tokens. The key is
 * constructed from modulus and exponent
 */
public class X509CredentialImpl implements X509Credential {

    private PublicKey publicKey = null;
    private X509Certificate signingCert = null;
```

```

/**
 * The key is constructed form modulus and exponent.
 *
 * @param modulus
 * @param publicExponent
 * @throws NoSuchAlgorithmException
 * @throws InvalidKeySpecException
 */
public X509CredentialImpl(BigInteger modulus, BigInteger publicExponent)
    throws NoSuchAlgorithmException, InvalidKeySpecException {
    RSAPublicKeySpec spec = new RSAPublicKeySpec(modulus, publicExponent);
    KeyFactory keyFactory = KeyFactory.getInstance("RSA");
    publicKey = keyFactory.generatePublic(spec);
}

public X509CredentialImpl(X509Certificate cert) {
    publicKey = cert.getPublicKey();
    signingCert = cert;
}

/**
 * Retrieves the publicKey
 */
public PublicKey getPublicKey() {
    return publicKey;
}

public X509Certificate getSigningCert() {
    return signingCert;
}

// ***** Not implemented *****

public X509Certificate getEntityCertificate() {
    // TODO Auto-generated method stub
    return null;
}

public Collection<X509CRL> getCRLs() {
    // TODO Auto-generated method stub
    return null;
}

public Collection<X509Certificate> getEntityCertificateChain() {
    // TODO Auto-generated method stub
    return null;
}

```

```

public CredentialContextSet getCredentialContextSet() {
    // TODO Auto-generated method stub
    return null;
}

public Class<? extends Credential> getCredentialType() {
    // TODO Auto-generated method stub
    return null;
}

public String getEntityId() {
    // TODO Auto-generated method stub
    return null;
}

public Collection<String> getKeyNames() {
    // TODO Auto-generated method stub
    return null;
}

public PrivateKey getPrivateKey() {
    // TODO Auto-generated method stub
    return null;
}

public SecretKey getSecretKey() {
    // TODO Auto-generated method stub
    return null;
}

public UsageType getUsageType() {
    // TODO Auto-generated method stub
    return null;
}
}
}

```

1.633

org.wso2.carbon.identity.authenticator.saml2 .sso.common 4.2.0

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1.634

org.wso2.carbon.identity.authenticator.saml2

.sso.stub 4.2.0

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1.639

org.wso2.carbon.identity.oauth mediator

4.2.2

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1.640 org.wso2.carbon.identity.oauth.stub

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1.647 org.wso2.carbon.jasper.patch 4.2.0

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1.648 org.wso2.carbon.java2wsdl 4.2.0

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1.650 org.wso2.carbon.keystore.mgt 2.2.1

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1.658 org.wso2.carbon.logging.admin.ui 4.2.0

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1.661 org.wso2.carbon.logging.view.ui 4.2.1

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~ software distributed under the License is distributed on an
~ "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
~ KIND, either express or implied. See the License for the
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-->
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar"
prefix="carbon"%>
<% @ page import="org.wso2.carbon.logging.view.ui.LogViewerClient"%>
<% @ page import="org.apache.axis2.context.ConfigurationContext"%>
<% @ page import="org.wso2.carbon.CarbonConstants"%>
<%-- <% @ page --%>
<!-- import="org.wso2.carbon.logging.view.stub.types.carbon.LogEvent"%> -->
<% @ page import="org.wso2.carbon.utils.ServerConstants"%>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil"%>
<% @ page import="org.wso2.carbon.logging.view.stub.types.carbon.PaginatedLogEvent"%>
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage"%>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil"%>
<% @ page import="org.wso2.carbon.ui.util.CharacterEncoder" %>
<% @ page import="org.wso2.carbon.logging.view.stub.types.carbon.LogEvent"%>
<% @ page import="java.text.SimpleDateFormat" %>
<script type="text/javascript" src="js/logviewer.js"></script>
<script type="text/javascript" src="../admin/dialog/js/dialog.js"></script>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<script type="text/JavaScript">
function refresh(time) {
```

```

    setTimeout("location.reload(true);", time);
}
</script>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>View Application Logs</title>
</head>
<body onload="JavaScript:refresh(120000);">

<%
String backendServerURL = CarbonUIUtil
    .getServerURL(config.getServletContext(), session);
ConfigurationContext configContext = (ConfigurationContext) config.getServletContext()
    .getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
LogViewerClient logViewerClient;
LogEvent[] events = null;
String type;
String keyword;
String action;
String pageNumberStr = request.getParameter("pageNumber");
int pageNumber = 0;
int numberOfPages = 0;
PaginatedLogEvent paginatedLogEvents = null;
String parameter = "";
    boolean isSuperTenant = CarbonUIUtil.isSuperTenant(request);
    boolean isManager = false;
    String tenantDomain = request.getParameter("tenantDomain");
    String serviceName = request.getParameter("serviceName");
    String showMaxStr = request.getParameter("showMax");
    String serviceNames[];
    boolean isValidTenant = true;
    boolean showMax= false;
    showMax = Boolean.parseBoolean(showMaxStr);
    try {
pageNumber = Integer.parseInt(pageNumberStr);
    } catch (NumberFormatException ignored) {
// page number format exception
    }
String appName;
String applicationNames[] = null;
try {
type = CharacterEncoder.getSafeText(request.getParameter("type"));
type = (type == null) ? "":type;
keyword = CharacterEncoder.getSafeText(request.getParameter("keyword"));
keyword = (keyword == null )? "":keyword;
action = CharacterEncoder.getSafeText(request.getParameter("action"));
appName = request.getParameter("appName");
logViewerClient = new LogViewerClient(cookie, backendServerURL, configContext);

```

```

isValidTenant = logViewerClient.isValidTenant(tenantDomain);
if (tenantDomain == null) {
    tenantDomain = "";
}
if (serviceName == null) {
    serviceName = "";
}
if(isValidTenant) {
    applicationNames = logViewerClient.getApplicationNames(tenantDomain, serviceName);
    if (appName == null && applicationNames !=null && applicationNames.length > 0) {
        appName = applicationNames[0];
    }
    if (applicationNames == null) {
        applicationNames = new String[]{"No applications"};
        appName = applicationNames[0];
    } else if(applicationNames != null && applicationNames.length == 0) {
        applicationNames = new String[]{"No applications"};
        appName = applicationNames[0];
    }
    paginatedLogEvents =
logViewerClient.getPaginatedApplicationLogEvents(pageNumber,type,keyword,appName, tenantDomain,
serviceName);
}
if (applicationNames == null) {
    applicationNames = new String[]{"No applications"};
    appName = applicationNames[0];
}
isManager = logViewerClient.isManager();
serviceNames = logViewerClient.getServiceNames();
if (paginatedLogEvents != null) {
    events = paginatedLogEvents.getLogInfo();
    numberOfPages = paginatedLogEvents.getNumberOfPages();
}

parameter = "type=" + type + "&keyword=" + keyword+ "&appName="+appName;
} catch (Exception e) {
    CarbonUIMessage.sendCarbonUIMessage(e.getMessage(), CarbonUIMessage.ERROR, request,
    e);
%>
<script type="text/javascript">
location.href = "../admin/error.jsp";
</script>
<%
return;
}
%>
<fmt:bundle basename="org.wso2.carbon.logging.view.ui.i18n.Resources">

```

```

<carbon:breadcrumb label="app.logs"
resourceBundle="org.wso2.carbon.logging.ui.i18n.Resources"
topPage="true" request="<%=request%>" />
<div id="middle">
<h2>
<fmt:message key="app.logs" />
</h2>
<div id="workArea">

```

```

<table border="0" class="styledLeft">
<tbody>
<tr>
<td>
<table class="normal">
<tr>
<td style="padding-right: 2px !important;">
<noBr><fmt:message key="log.level"/></noBr>
</td>
<td><select class="log-select" id="logLevelID" return false;">
<%
String[] logLevels = logViewerClient.getLogLevels();
if (keyword != null && !keyword.equals("")) {
type = "Custom";
%>

<option value="<%=type%>" selected="true"><%=type%></option>

<%
}
for (String logLevel : logLevels) {
if (logLevel.equals(type)) {
%>

<option value="<%=logLevel%>" selected="true"><%=logLevel%></option>

<%
} else {
%>

<option value="<%=logLevel%>"><%=logLevel%></option>

<%
}
}
%>
</select></td>

```

```

<td style="padding-right: 2px !important;">
  <noabr><fmt:message key="application.name"/></noabr>
</td>
<td ><select
  name="appName" id="appName" return false;">
  <%
    for (String name : applicationNames) {
  %>
  <%
    if (name.equals(appName)) {
  %>
  <option selected="selected" value="<%=name%>">
    <%=name%>
  </option>
  <%
    } else {
  %>
  <option value="<%=name%>">
    <%=name%>
  </option>
  <%
    }
  %>
  <%
    }
  %>
  </select></td>
<td style="padding-right: 2px !important;"><noabr>
  <fmt:message key="search.logs" />
</noabr>
</td>
<td style="padding-right: 2px !important;">
  <input onkeypress="appSubmitter(event)" value="<%=keyword%>"
    class="log-select" size="20" id="logkeyword" type="text"></td>
<td style="padding-right: 2px !important;">
  <a
    class="icon-link"
    style="background-image: url(images/search.gif);"
    href="javascript:searchAppLogs()"
  ></a>
</td>
<!--td style="padding-right: 2px !important;"><input type="button"
  value="Search"
  onclick="javascript:searchAppLogs(); return false;"
  class="button"-->
</td>
<td><input type="hidden" id="logkeyword"

```

```

        name="KeyWord" value="<%=keyword%>" />
    </td>
    <td style="width: 17%;"></td>
    <td style="padding-right: 2px !important;"><noabr>
        <fmt:message key="current.time" />
    </noabr>
</td>
<%
    SimpleDateFormat dateFormat = new SimpleDateFormat("Z");
    String date = dateFormat.format(System.currentTimeMillis());
%>
<td>
    <%= "GMT " + date%>
</td>
</tr>
</table>
</td>
</tr>
</tbody>
</table>

```

```

    <br/>
<table border="1" class="styledLeft">

<tbody>

<tr>
<td class="formRow">

<table class="styledLeft">
<thead>
<tr>
<th><b><fmt:message key="log.type" />
</b>
</th>
<th><b><fmt:message key="date" />
</b>
</th>
<th colspan="2"><b><fmt:message key="log.message" />
</b>
</th>
</tr>
</thead>

<%
    if(!isValidTenant) { %>
<fmt:message key="invalid.tenant" />

```

```

        <% } else {

if (events == null || events.length == 0 || events[0] == null) {
%>
    <fmt:message key="no.logs" />
<%
} else {
    int index = 0;
    for (LogEvent logMessage : events) {
        index++;
        if (index % 2 != 0) {
%>
<tr>
<%
    } else {
%>

<tr bgcolor="#eeeefb">
<%
    }
%>
    <td border-bottom="gray" width="2%">"
</td>
<td><no><%=logMessage.getLogTime()%"></no></td>
<td><%=CharacterEncoder.getSafeText(logMessage.getMessage())%"></td>
<%
    String imgId = "traceSymbolMax" + index;
%>
<td><a
class="icon-link"
style="background-image: url(images/plus.gif);"
href="javascript:showTrace(<%=index%">)"
id="<%=imgId%">"></a> <fmt:message
key="view.stack.trace" /></td>
</tr>

<%
    String id = "traceTable" + index;
    if (index % 2 != 0) {
%>
<tr id="<%=id%">" style="display: none" >
<%
    } else {
%>

```

```

<tr id="<%=id%>" style="display: none" bgcolor="#eeffb">
<%
}
%>

<td colspan="4" width="100%">TID[<%=logMessage.getTenantId()%>]
AppID[<%=logMessage.getAppname()%>] [<%=logMessage.getServerName()%>]
[<%=logMessage.getLogTime()%>] <%=logMessage.getPriority().trim()%> {<%=logMessage.getLogger()%> } -
<%=CharacterEncoder.getSafeText(logMessage.getMessage())%>
<%=logMessage.getStacktrace()%><br/>
</td>
</tr>
<%
}
}
}
}
%>

</table>
<carbon:paginator pageNumber="<%=pageNumber%>" numberOfPages="<%=numberOfPages%>"
page="application_log_viewer.jsp" pageNumberParameterName="pageNumber"
prevKey="prev" nextKey="next"
parameters="<%= parameter%>"/>
</td>
</tr>
</tbody>
</table>
</div>
</div>
</fmt:bundle>
</body>
</html>

```

1.662

org.wso2.carbon.mediation.artifactuploader

4.2.0

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1.663

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1.668

org.wso2.carbon.mediation.dependency.mgt

4.2.0

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 */
```

```
package org.wso2.carbon.mediation.dependency.mgt.services;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.synapse.config.SynapseConfiguration;
import org.apache.synapse.config.SynapseObserver;
import org.osgi.framework.BundleContext;
import org.wso2.carbon.context.PrivilegedCarbonContext;
import org.wso2.carbon.mediation.dependency.mgt.DependencyTracker;
```

```
import java.util.List;
```

```
public class ConfigurationTrackingServiceImpl implements ConfigurationTrackingService {
```

```
    private final Log log = LogFactory.getLog(this.getClass());
```

```
    private BundleContext bndCtx;
```

```
    private DependencyManagementServiceImpl mgtService = new DependencyManagementServiceImpl();
```

```
    private boolean serviceRegistered = false;
```

```
    public ConfigurationTrackingServiceImpl(BundleContext bndCtx) {
        if (log.isDebugEnabled()) {
```

```

        log.debug("Initializing ConfigurationTrackingService");
    }
    this.bndCtx = bndCtx;
}

public void setSynapseConfiguration(SynapseConfiguration synCfg) {
    int tenantId = PrivilegedCarbonContext.getThreadLocalCarbonContext().getTenantId();

    List<SynapseObserver> observers = synCfg.getObservers();
    for (SynapseObserver o : observers) {
        if (o instanceof DependencyTracker) {
            DependencyTracker tracker = (DependencyTracker) o;
            mgtService.setDependencyTracker(tenantId, tracker);
            if (log.isDebugEnabled()) {
                log.debug("Dependency tracker found for the tenant: " + tenantId);
            }

            if (!serviceRegistered) {
                bndCtx.registerService(DependencyManagementService.class.getName(),
                    mgtService, null);
                if (log.isDebugEnabled()) {
                    log.debug("DependencyManagementService registered and ready to be used");
                }
                serviceRegistered = true;
            }
            break;
        }
    }
}

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 */

package org.wso2.carbon.mediation.dependency.mgt.services;

```

```

import org.wso2.carbon.mediation.dependency.mgt.DependencyResolver;
import org.wso2.carbon.mediation.dependency.mgt.DependencyResolverFactory;

public class ResolverRegistrationServiceImpl implements ResolverRegistrationService {

    public void register(Class clazz, DependencyResolver resolver) {
        DependencyResolverFactory.getInstance().addResolver(clazz.getName(), resolver);
    }
}
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 */

package org.wso2.carbon.mediation.dependency.mgt.services;

import org.wso2.carbon.mediation.dependency.mgt.DependencyTracker;
import org.wso2.carbon.mediation.dependency.mgt.ConfigurationObject;
import org.wso2.carbon.utils.multitenancy.MultitenantConstants;

import java.util.HashMap;
import java.util.Map;

public class DependencyManagementServiceImpl implements DependencyManagementService {

    private Map<Integer,DependencyTracker> trackers = new HashMap<Integer,DependencyTracker>();

    public DependencyManagementServiceImpl() {

    }

    public DependencyManagementServiceImpl(DependencyTracker tracker) {
        trackers.put(MultitenantConstants.SUPER_TENANT_ID, tracker);
    }

    protected synchronized void setDependencyTracker(int tenantId, DependencyTracker tracker) {
        trackers.put(tenantId, tracker);
    }
}

```

```

    }

    public boolean hasDependents(int tenantId, int type, String key) {
        DependencyTracker tracker = trackers.get(tenantId);
        return tracker != null && tracker.hasDependents(type, key);
    }

    public boolean hasActiveDependents(int tenantId, int type, String key) {
        DependencyTracker tracker = trackers.get(tenantId);
        return tracker != null && tracker.hasActiveDependents(type, key);
    }

    public ConfigurationObject[] getDependents(int tenantId, int type, String key) {
        DependencyTracker tracker = trackers.get(tenantId);
        if (tracker != null) {
            ConfigurationObject[] dependents = tracker.getDependents(type, key);
            if (dependents != null) {
                return dependents.clone();
            }
        }
        return null;
    }

    public boolean hasDependents(int type, String key) {
        return hasDependents(MultitenantConstants.SUPER_TENANT_ID, type, key);
    }

    public boolean hasActiveDependents(int type, String key) {
        return hasActiveDependents(MultitenantConstants.SUPER_TENANT_ID, type, key);
    }

    public ConfigurationObject[] getDependents(int type, String key) {
        return getDependents(MultitenantConstants.SUPER_TENANT_ID, type, key);
    }
}

```

1.669 org.wso2.carbon.mediation.initializer

4.2.2

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```

```
package org.wso2.carbon.mediation.initializer.services;
```

```
import org.apache.synapse.core.SynapseEnvironment;
import org.apache.axis2.context.ConfigurationContext;
```

```
public class SynapseEnvironmentServiceImpl implements SynapseEnvironmentService {
```

```
    private SynapseEnvironment synapseEnvironment;
```

```
    private ConfigurationContext configurationContext;
```

```
    private int tenantId;
```

```
    public SynapseEnvironmentServiceImpl(SynapseEnvironment synapseEnvironment, int tenantId,
        ConfigurationContext configCtx) {
        this.synapseEnvironment = synapseEnvironment;
        this.tenantId = tenantId;
        this.configurationContext = configCtx;
    }
```

```
    public int getTenantId() {
        return tenantId;
    }
```

```
    public SynapseEnvironment getSynapseEnvironment() {
        return synapseEnvironment;
    }
```

```
    public void setSynapseEnvironment(SynapseEnvironment synapseEnvironment) {
        this.synapseEnvironment = synapseEnvironment;
    }
```

```
    public ConfigurationContext getConfigurationContext() {
        return configurationContext;
    }
```

```
    public void setConfigurationContext(ConfigurationContext configurationContext) {
        this.configurationContext = configurationContext;
    }
```

```

    }
}
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 */
package org.wso2.carbon.mediation.initializer.services;

import org.osgi.framework.ServiceRegistration;
import org.apache.axis2.context.ConfigurationContext;

/**
 *
 */
public class SynapseRegistrationsServiceImpl implements SynapseRegistrationsService {

    private ServiceRegistration synapseConfigurationServiceRegistration;
    private ServiceRegistration synapseEnvironmentServiceRegistration;

    private int tenantId;

    private ConfigurationContext configCtx;

    public SynapseRegistrationsServiceImpl(ServiceRegistration synCfgSvcReg,
        ServiceRegistration synEnvSvcReg,
        int tenantId,
        ConfigurationContext configCtx) {
        this.synapseConfigurationServiceRegistration = synCfgSvcReg;
        this.synapseEnvironmentServiceRegistration = synEnvSvcReg;
        this.tenantId = tenantId;
        this.configCtx = configCtx;
    }

    public ServiceRegistration getSynapseConfigurationServiceRegistration() {
        return synapseConfigurationServiceRegistration;
    }

```



```

    }

    public ServiceRegistration getSynapseEnvironmentServiceRegistration() {
        return synapseEnvironmentServiceRegistration;
    }

    public int getTenantId() {
        return tenantId;
    }

    public ConfigurationContext getConfigurationContext() {
        return configCtx;
    }
}
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 */

package org.wso2.carbon.mediation.initializer.services;

import org.apache.synapse.config.SynapseConfiguration;
import org.apache.axis2.context.ConfigurationContext;

public class SynapseConfigurationServiceImpl implements SynapseConfigurationService {

    private SynapseConfiguration synapseConfiguration;

    private ConfigurationContext configurationContext;

    private int tenantId;

    public SynapseConfigurationServiceImpl(SynapseConfiguration synapseConfiguration,
        int tenantId,
        ConfigurationContext configurationContext) {
        this.synapseConfiguration = synapseConfiguration;
        this.tenantId = tenantId;
    }

```

```

        this.configurationContext = configurationContext;
    }

    public SynapseConfiguration getSynapseConfiguration() {
        return synapseConfiguration;
    }

    public void setSynapseConfiguration(SynapseConfiguration synapseConfiguration) {
        this.synapseConfiguration = synapseConfiguration;
    }

    public ConfigurationContext getConfigurationContext() {
        return configurationContext;
    }

    public int getTenantId() {
        return tenantId;
    }
}
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 */
package org.wso2.carbon.mediation.initializer.persistence;

import org.apache.axiom.om.OMAbstractFactory;
import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.OMException;
import org.apache.axiom.om.impl.llom.util.AXIOMUtil;
import org.apache.synapse.SynapseConstants;
import org.apache.synapse.config.SynapseConfiguration;
import org.apache.synapse.config.xml.MultiXMLConfigurationBuilder;
import org.apache.synapse.config.xml.TemplateMediatorSerializer;
import org.apache.synapse.config.xml.XMLConfigConstants;
import org.apache.synapse.config.xml.endpoints.TemplateSerializer;

```

```

import org.apache.synapse.endpoints.Template;
import org.apache.synapse.mediators.template.TemplateMediator;
import org.wso2.carbon.mediation.initializer.persistence.registry.TemplateRegistryStore;
import org.wso2.carbon.registry.core.session.UserRegistry;

import javax.xml.namespace.QName;
import javax.xml.stream.XMLStreamException;
import java.io.File;

public class EndpointTemplateStore extends AbstractStore<Template> {

    public EndpointTemplateStore(String configPath, UserRegistry registry, String configName) {
        super(configPath);
        if (registry != null) {
            this.registryStore = new TemplateRegistryStore(registry, configName);
        }
    }

    protected String getFileName(Template template) {
        return template.getFileName();
    }

    protected Template getObjectToPersist(String name, SynapseConfiguration config) {
        return config.getEndpointTemplates().get(name);
    }

    protected OMElement saveToFile(Template template, SynapseConfiguration synapseConfig) {
        try {
            return serializer.serializeTemplate(template, synapseConfig, null);
        } catch (Exception e) {
            handleException("Error while saving the template: " + template.getName() + " to the " +
                "file system", e);
        }
        return null;
    }

    protected OMElement serialize(Template endpointTemplate) {
        TemplateSerializer serializer = new TemplateSerializer();
        // OMElement parent = OMAbstractFactory.getOMFactory().createOMElement(new
        QName(XMLConfigConstants.SYNAPSE_NAMESPACE, "parent"));
        return serializer.serializeEndpointTemplate(endpointTemplate, null);
    }

    @SuppressWarnings({"ResultOfMethodCallIgnored"})
    protected void deleteFile(String fileName, SynapseConfiguration synapseConfig) {
        File templateDir = new File(configPath, MultiXMLConfigurationBuilder.TEMPLATES_DIR);
        if (!templateDir.exists()) {
            return;
        }
    }
}

```

```

    }

    File templateFile = new File(templateDir, fileName);
    synapseConfig.getArtifactDeploymentStore().addBackedUpArtifact(
        templateFile.getAbsolutePath());
    templateFile.delete();
}

}

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 */
package org.wso2.carbon.mediation.initializer.persistence;

import org.apache.axiom.om.OMElement;
import org.apache.synapse.config.SynapseConfiguration;
import org.apache.synapse.config.xml.MultiXMLConfigurationBuilder;
import org.apache.synapse.config.xml.SequenceMediatorSerializer;
import org.apache.synapse.config.xml.TemplateMediatorSerializer;
import org.apache.synapse.mediators.base.SequenceMediator;
import org.apache.synapse.mediators.template.TemplateMediator;
import org.wso2.carbon.mediation.initializer.persistence.registry.SequenceRegistryStore;
import org.wso2.carbon.mediation.initializer.persistence.registry.TemplateRegistryStore;
import org.wso2.carbon.registry.core.session.UserRegistry;

import java.io.File;

public class TemplateStore extends AbstractStore<TemplateMediator> {

    public TemplateStore(String configPath, UserRegistry registry, String configName) {
        super(configPath);
        if (registry != null) {
            this.registryStore = new TemplateRegistryStore(registry, configName);
        }
    }
}

```

```

    }

    protected String getFileName(TemplateMediator template) {
        return template.getFileName();
    }

    protected TemplateMediator getObjectToPersist(String name, SynapseConfiguration config) {
        return config.getSequenceTemplates().get(name);
    }

    protected OMElement saveToFile(TemplateMediator template, SynapseConfiguration synapseConfig) {
        try {
            return serializer.serializeTemplate(template, synapseConfig, null);
        } catch (Exception e) {
            handleException("Error while saving the template: " + template.getName() + " to the " +
                "file system", e);
        }
        return null;
    }

    protected OMElement serialize(TemplateMediator sequence) {
        TemplateMediatorSerializer serializer = new TemplateMediatorSerializer();
        return serializer.serializeMediator(null, sequence);
    }

    @SuppressWarnings({"ResultOfMethodCallIgnored"})
    protected void deleteFile(String fileName, SynapseConfiguration synapseConfig) {
        File templateDir = new File(configPath, MultiXMLConfigurationBuilder.TEMPLATES_DIR);
        if (!templateDir.exists()) {
            return;
        }

        File templateFile = new File(templateDir, fileName);
        synapseConfig.getArtifactDeploymentStore().addBackedUpArtifact(
            templateFile.getAbsolutePath());
        templateFile.delete();
    }
}
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*/
package org.wso2.carbon.mediation.initializer.persistence.registry;

import org.apache.axiom.om.OMElement;
import org.apache.synapse.config.xml.XMLConfigConstants;
import org.wso2.carbon.application.deployer.AppDeployerUtils;
import org.wso2.carbon.mediation.initializer.ServiceBusConstants;
import org.wso2.carbon.registry.core.RegistryConstants;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.session.UserRegistry;

import java.util.ArrayList;
import java.util.Collection;

public class TemplateRegistryStore extends AbstractRegistryStore {
    public TemplateRegistryStore(UserRegistry registry, String configName) {
        super(registry, configName);
        // if sequences collection does not exists, create a one
        createCollection(getConfigurationPath());
    }

    public Collection<OMElement> getElements() {
        Collection<OMElement> sequenceElements = new ArrayList<OMElement>();
        try {
            sequenceElements = getChildElementsInPath(
                getConfigurationPath());
        } catch (RegistryException e) {
            handleException("Couldn't get the list of templates from the registry in path : "
                + getConfigurationPath(), e);
        }
        return sequenceElements;
    }

    public OMElement getElement(String name) {
        // todo
        return null;
    }

    public void persistElement(String name, OMElement element, String fileName) {
        if (element.getLocalName().equals(
            XMLConfigConstants.TEMPLATE_ELT.getLocalPart())) {

```

```

    if (log.isDebugEnabled()) {
        log.debug("Persisting template : " + name + " to the registry");
    }

    String templatePath = getConfigurationPath()
        + RegistryConstants.PATH_SEPARATOR + name;

    AppDeployerUtils.attachArtifactToOwnerApp(fileName, ServiceBusConstants
        .SEQUENCE_TYPE, name, registry.getTenantId());

    try {
        persistElement(element, templatePath, fileName);
    } catch (RegistryException e) {
        handleException("Unable to persist the template in the path : " + templatePath, e);
    }
} else {
    handleException("The element provided to persist is not a template");
}
}

public void deleteElement(String name) {
    String templatePath = getConfigurationPath()
        + RegistryConstants.PATH_SEPARATOR + name;
    try {
        if (registry.resourceExists(templatePath)) {
            registry.delete(templatePath);
        }
    } catch (RegistryException e) {
        handleException("Error in deleting the template at path : " + templatePath, e);
    }
}

protected String getConfigurationPath() {
    return getConfigurationRoot() + RegistryConstants.PATH_SEPARATOR +
        ServiceBusConstants.RegistryStore.TEMPLATE_REGISTRY;
}
}
}

```

1.670 org.wso2.carbon.mediation.initializer.ui

4.2.0

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1.671 org.wso2.carbon.mediation.library 4.2.0

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1.672 org.wso2.carbon.mediation.library.stub

4.2.0

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1.673 org.wso2.carbon.mediation.library.ui

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-->
<link type="text/css" href="../../dialog/js/jqueryui/tabs/ui.all.css"
rel="stylesheet" />
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage"%>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil"%>
<% @ page import="org.apache.axis2.context.ConfigurationContext"%>
<% @ page import="org.wso2.carbon.CarbonConstants"%>
<% @ page import="org.wso2.carbon.utils.ServerConstants"%>
<% @ page import="java.util.ResourceBundle"%>
<% @ page
import="org.wso2.carbon.mediation.library.ui.LibraryAdminClient"%>
<% @ page
import="org.wso2.carbon.mediation.library.stub.types.carbon.LibraryInfo"%>
<% @ page
import="org.wso2.carbon.mediation.library.stub.types.carbon.LibraryArtifactInfo"%>
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage"%>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar"
prefix="carbon"%>

<%
String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
ConfigurationContext configContext = (ConfigurationContext) config.getServletContext()
    .getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);

String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);

String BUNDLE = "org.wso2.carbon.mediation.library.ui.i18n.Resources";
ResourceBundle bundle = ResourceBundle.getBundle(BUNDLE, request.getLocale());

String importLibName = request.getParameter("libName");
```

```

String importPackageName = request.getParameter("pkgName");
LibraryInfo libraryInfo=null;
try {
    LibraryAdminClient client = new LibraryAdminClient(cookie,
        backendServerURL, configContext, request.getLocale());

    String msg = "";
    if (importLibName != null && importPackageName != null && !"".equals(importLibName.trim())
        && !"".equals(importPackageName.trim())) {
        libraryInfo = client.getLibraryInfo(importLibName, importPackageName);
        //msg = bundle.getString("successfully.imported.app") + " " + importLibName + ". " +
        //bundle.getString("refresh.capp.page");
    }
    //CarbonUIMessage.sendCarbonUIMessage(msg, CarbonUIMessage.INFO, request);
} catch (Exception e) {
    CarbonUIMessage.sendCarbonUIMessage(e.getMessage(), CarbonUIMessage.ERROR, request, e);
}
%>

```

```

<fmt:bundle
    basename="org.wso2.carbon.mediation.library.ui.i18n.Resources">
<carbon:breadcrumb label="libs.application.dashboard"
    resourceBundle="org.wso2.carbon.mediation.library.ui.i18n.Resources"
    topPage="false" request="<%=request%>" />

```

```
<script type="text/javascript">
```

```
</script>
```

```

<div id="middle">
<div id="workArea">
<table class="styledLeft" id="appTable" width="100%">
<thead>
<tr>
<th><%=importLibName.trim() %></th>
</tr>
<tr>
<th><fmt:message key="libs.table.operation" /></th>
<th><fmt:message key="libs.table.description" /></th>
</tr>
</thead>
<tbody>
<%
    for (LibraryArtifactInfo info : libraryInfo.getArtifacts()) {
%>
<tr>
<td><%=info.getName()%></td>
<td><%=info.getDescription()%></td>

```

```

</tr>
<%
}
%>

</tbody>
</table>
</div>
</div>

</fmt:bundle>

```

1.674 org.wso2.carbon.mediation.registry

4.2.1

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```

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 */

package org.wso2.carbon.mediation.registry;

import org.apache.synapse.registry.RegistryEntryImpl;

import java.util.Date;

/**
 * The Synapse { @link org.apache.synapse.registry.RegistryEntryImpl } conflicts the
 * { @link org.wso2.carbon.mediation.registry.ESBRegistryConstants#FILE } and the
 * { @link org.wso2.carbon.mediation.registry.ESBRegistryConstants#FOLDER } types because it
 * is doing a validation, so this class is to get rid of that validation;
 */
public class MediationRegistryEntryImpl extends RegistryEntryImpl {

```

```

private String type;

@Override
public void setType(String type) {
    this.type = type;
}

@Override
public String getType() {
    return this.type;
}

@Override
public String toString() {
    StringBuffer sb = new StringBuffer();
    sb.append("RegistryEntry {")
        .append(" Key : ").append(getKey())
        .append(" Name : ").append(getName())
        .append(" Version : ").append(getVersion())
        .append(" Type : ").append(type)
        .append(" Description : ").append(getDescription())
        .append(" Created : ").append(new Date(getCreated()))
        .append(" Modified : ").append(new Date(getLastModified()))
        .append(" Cacheable for : ").append(getCacheableDuration() / 1000)
        .append("sec").append("}");
    return sb.toString();
}
}
/**
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 */

package org.wso2.carbon.mediation.registry.services;

/**
 *
 */

```



```
*/  
public class SynapseRegistryServiceImpl implements SynapseRegistryService {  
}
```

1.675 org.wso2.carbon.mediation.security

4.2.0

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```

```
package org.wso2.carbon.mediation.security.vault;
```

```
import java.util.Calendar;  
import java.util.Map;
```

```
import org.apache.commons.logging.Log;  
import org.apache.commons.logging.LogFactory;  
import org.apache.synapse.MessageContext;  
import org.apache.synapse.config.SynapseConfiguration;  
import org.wso2.carbon.base.api.ServerConfigurationService;  
import org.wso2.carbon.registry.core.exceptions.RegistryException;  
import org.wso2.carbon.registry.core.service.RegistryService;  
import org.wso2.carbon.registry.core.session.UserRegistry;
```

```
public class SecureVaultLookupHandlerImpl implements SecureVaultLookupHandler {
```

```
    private static Log log = LogFactory.getLog(SecureVaultLookupHandlerImpl.class);
```

```
    private static SecureVaultLookupHandlerImpl instance = null;
```

```

private ServerConfigurationService serverConfigService;

private RegistryService registryService;

UserRegistry registry = null;

private SecureVaultLookupHandlerImpl(ServerConfigurationService serverConfigurationService,
                                     RegistryService registryService) throws RegistryException {
    this.serverConfigService = serverConfigurationService;
    this.registryService = registryService;
    try {
        init();
    } catch (RegistryException e) {
        throw new RegistryException("Error while intializing the registry");
    }
}

public static SecureVaultLookupHandlerImpl getDefaultSecurityService() throws RegistryException {
    return getDefaultSecurityService(SecurityServiceHolder.getInstance()
                                    .getServerConfigurationService(),
                                    SecurityServiceHolder.getInstance().getRegistryService());
}

private static SecureVaultLookupHandlerImpl getDefaultSecurityService(ServerConfigurationService
serverConfigurationService,
                               RegistryService registryService)
                               throws RegistryException {
    if (instance == null) {
        instance =
            new SecureVaultLookupHandlerImpl(serverConfigurationService, registryService);
    }
    return instance;
}

private void init() throws RegistryException {
    try {
        registry = registryService.getConfigSystemRegistry();

        // creating vault-specific storage repository (this happens only if
        // not resource not existing)
        initRegistryRepo();
    } catch (RegistryException e) {
        throw new RegistryException("Error while intializing the registry");
    }
}

/**

```

```

* Initializing the repository which requires to store the secure vault
* cipher text
*
* @throws RegistryException
*/
private void initRegistryRepo() throws RegistryException {

if (!isRepoExists()) {
org.wso2.carbon.registry.core.Collection secureVaultCollection =
registry.newCollection();
registry.put(SecureVaultConstants.CONNECTOR_SECURE_VAULT_CONFIG_REPOSITORY,
secureVaultCollection);
}
}

/**
* Checks whether the given repository already existing.
*
* @return
*/
protected boolean isRepoExists() {
try {
registry.get(SecureVaultConstants.CONNECTOR_SECURE_VAULT_CONFIG_REPOSITORY);
} catch (RegistryException e) {
return false;
}
return true;
}

public String getProviderClass() {
return this.getClass().getName();
}

/*
* (non-Javadoc)
*
* @see
* org.wso2.carbon.mediation.secure.vault.MediationSecurity#evaluate(java
* .lang.String,
* org.wso2.carbon.mediation.secure.vault.MediationSrecurtyClient
* .LookupType)
*/
@Override
public String evaluate(String aliasPasword, MessageContext synCtx) throws RegistryException {
SynapseConfiguration synapseConfiguration = synCtx.getConfiguration();
Map<String, Object> decryptedCacheMap = synapseConfiguration.getDecryptedCacheMap();
if (decryptedCacheMap.containsKey(aliasPasword)) {
SecureVaultCacheContext cacheContext =

```

```

        (SecureVaultCacheContext) decryptedCacheMap.get(aliasPasword);
String cacheDurable =
    synCtx.getConfiguration().getRegistry()
        .getConfigurationProperties()
        .getProperty("cachableDuration");
long cacheTime =
    (cacheDurable != null && !cacheDurable.isEmpty())
        ? Long.parseLong(cacheDurable)
        : 10000;
if ((cacheContext.getDateTime().getTime() + cacheTime) >= System.currentTimeMillis()) {
    // which means the given value between the cachable limit
    return cacheContext.getDecryptedValue();
} else {
    decryptedCacheMap.remove(aliasPasword);
    return vaultLookup(aliasPasword, synCtx, decryptedCacheMap);
}

} else {
    String decryptedValue = vaultLookup(aliasPasword, synCtx, decryptedCacheMap);
    return decryptedValue;
}
}

private String vaultLookup(String aliasPasword, MessageContext synCtx,
    Map<String, Object> decryptedCacheMap) {
    SecretCipherHandler secretManager = new SecretCipherHandler(synCtx);
    String decryptedValue = secretManager.getSecret(aliasPasword);
    if (decryptedCacheMap == null) {
        return null;
    }
    decryptedCacheMap.put(aliasPasword, new SecureVaultCacheContext(Calendar.getInstance()
        .getTime(),
        decryptedValue));

    return decryptedValue;
}
}
}

```

1.676

org.wso2.carbon.mediation.security.stub

4.2.0

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1.677 org.wso2.carbon.mediation.security.ui

4.2.0

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1.678 org.wso2.carbon.mediation.statistics

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```
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import org.apache.axis2.context.ConfigurationContext;
import org.wso2.carbon.mediation.statistics.MediationStatisticsStore;
import org.wso2.carbon.utils.multitenancy.MultitenantConstants;

import java.util.HashMap;

public class MediationStatisticsServiceImpl implements MediationStatisticsService {

    private MediationStatisticsStore tenantStatStore;

    private int tenantId = MultitenantConstants.SUPER_TENANT_ID;

    private ConfigurationContext configurationContext;

    public MediationStatisticsServiceImpl(MediationStatisticsStore mediationStatStore,
        int tenantId, ConfigurationContext configurationContext) {
        tenantStatStore = mediationStatStore;
        this.tenantId = tenantId;
        this.configurationContext = configurationContext;
    }

    public MediationStatisticsStore getStatisticsStore() {
        return tenantStatStore;
    }

    public int getTenantId() {
        return tenantId;
    }

    public ConfigurationContext getConfigurationContext() {
        return configurationContext;
    }
}
```

1.679

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1.680 org.wso2.carbon.mediation.statistics.ui

4.2.0

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1.681 org.wso2.carbon.mediation.templates

4.2.0

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```

package org.wso2.carbon.mediation.templates.services;

import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.impl.llom.util.AXIOMUtil;
import org.apache.axis2.AxisFault;
import org.apache.axis2.util.XMLPrettyPrinter;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.synapse.SynapseException;
import org.apache.synapse.config.SynapseConfiguration;
import org.apache.synapse.config.xml.SynapseXMLConfigurationFactory;
import org.apache.synapse.config.xml.XMLConfigConstants;
import org.apache.synapse.config.xml.endpoints.TemplateFactory;
import org.apache.synapse.config.xml.endpoints.TemplateSerializer;
import org.apache.synapse.endpoints.Template;
import org.apache.synapse.registry.Registry;
import org.wso2.carbon.mediation.initializer.AbstractServiceBusAdmin;
import org.wso2.carbon.mediation.initializer.ServiceBusConstants;
import org.wso2.carbon.mediation.initializer.ServiceBusUtils;
import org.wso2.carbon.mediation.initializer.persistence.MediationPersistenceManager;
import org.wso2.carbon.mediation.templates.common.EndpointTemplateInfo;
import org.wso2.carbon.mediation.templates.common.factory.TemplateInfoFactory;
import org.wso2.carbon.registry.core.Resource;
import org.wso2.carbon.registry.core.exceptions.RegistryException;

import javax.xml.namespace.QName;
import javax.xml.stream.XMLStreamException;
import java.io.ByteArrayOutputStream;
import java.util.Arrays;
import java.util.Collection;
import java.util.HashMap;
import java.util.Map;
import java.util.concurrent.locks.Lock;

public class EndpointTemplateEditorAdmin extends AbstractServiceBusAdmin {
    private static final Log log = LogFactory.getLog(EndpointTemplateEditorAdmin.class);

    //TODO: Move WSO2_TEMPLATE_MEDIA_TYPE to registry
    public static final String WSO2_ENDPOINT_TEMPLATE_MEDIA_TYPE =
"application/vnd.wso2.template.endpoint";

```



```

public int getEndpointTemplatesCount() throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        return getSynapseConfiguration().getEndpointTemplates().values().size();
    } catch (Exception e) {
        handleException("Couldn't get the Synapse Configuration to get Sequence count", e);
    } finally {
        lock.unlock();
    }
    return 0;
}

public int getDynamicEndpointTemplatesCount() throws AxisFault{
    try {
        String[] govList = getGovernanceRegistry() !=null?getMimeTypeResult(getGovernanceRegistry()):new
String[0];
        String[] confList = getConfigSystemRegistry() != null?getMimeTypeResult(getConfigSystemRegistry()):new
String[0];
        return confList.length + govList.length;
    } catch (Exception e) {
        return 0;
    }
}

@SuppressWarnings({"unchecked"})
private String[] getMimeTypeResult(org.wso2.carbon.registry.core.Registry targetRegistry)
    throws Exception {
    String sql = "SELECT REG_PATH_ID, REG_NAME FROM REG_RESOURCE WHERE
REG_MEDIA_TYPE = ?";
    Map parameters = new HashMap();
    parameters.put("query", sql);
    parameters.put("1", WSO2_ENDPOINT_TEMPLATE_MEDIA_TYPE);
    Resource result = targetRegistry.executeQuery(null, parameters);
    return (String[]) result.getContent();
}

public EndpointTemplateInfo[] getEndpointTemplates(int pageNumber, int endpointTemplatesPerPage) throws
AxisFault {
    final Lock lock = getLock();
    Collection<Template> templates = null;
    try {
        lock.lock();
        templates = getSynapseConfiguration().getEndpointTemplates().values();

        EndpointTemplateInfo[] info = TemplateInfoFactory.getSortedTemplateInfoArray(templates);
        EndpointTemplateInfo[] ret;

```

```

    if (info.length >= (endpointTemplatesPerPage * pageNumber + endpointTemplatesPerPage)) {
        ret = new EndpointTemplateInfo[endpointTemplatesPerPage];
    } else {
        int tSize = info.length - (endpointTemplatesPerPage * pageNumber);
        if(tSize < 0 ) tSize=0;
        ret = new EndpointTemplateInfo[tSize];
    }
    for (int i = 0; i < endpointTemplatesPerPage; ++i) {
        if (ret.length > i) {
            ret[i] = info[endpointTemplatesPerPage * pageNumber + i];
        }
    }
    return ret;
} catch (Exception fault) {
    handleException("Couldn't get the Synapse Configuration to " +
        "get the available templates", fault);
} finally {
    lock.unlock();
}
return new EndpointTemplateInfo[0];
}

public EndpointTemplateInfo[] getDynamicEndpointTemplates(int pageNumber, int endpointTemplatesPerPage)
throws AxisFault {
    org.wso2.carbon.registry.core.Registry registry;
    EndpointTemplateInfo[] ret;
    final Lock lock = getLock();
    try {
        lock.lock();
        String[] configInfo = getConfigSystemRegistry() !=null?getMimeTypeResult(getConfigSystemRegistry())
:new String[0];
        String[] govInfo = getGovernanceRegistry() !=null?getMimeTypeResult(getGovernanceRegistry()): new
String[0];
        String[] info = new String[configInfo.length + govInfo.length];

        int ptr = 0;
        for (String aConfigInfo : configInfo) {
            info[ptr] = "conf:" + aConfigInfo;
            ++ptr;
        }
        for (String aGovInfo : govInfo) {
            info[ptr] = "gov:" + aGovInfo;
            ++ptr;
        }
        Arrays.sort(info);
        if (info.length >= (endpointTemplatesPerPage * pageNumber + endpointTemplatesPerPage)) {
            ret = new EndpointTemplateInfo[endpointTemplatesPerPage];
        } else {

```

```

        ret = new EndpointTemplateInfo[info.length - (endpointTemplatesPerPage * pageNumber)];
    }
    for (int i = 0; i < endpointTemplatesPerPage; ++i) {
        if (ret.length > i) {
            EndpointTemplateInfo seq = new EndpointTemplateInfo();
            seq.setTemplateName(info[endpointTemplatesPerPage * pageNumber + i]);
            ret[i] = seq;
        }
    }
} catch (Exception e) {
    handleException("Unable to get Dynamic Template Info",e);
    return null;
} finally {
    lock.unlock();
}
return ret;

//    return new EndpointTemplateInfo[0];
}

public OMElement getTemplate(String templateName) throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        SynapseConfiguration synapseConfiguration = getSynapseConfiguration();
        Template template = synapseConfiguration.getEndpointTemplate(templateName);
        if (template != null) {
            OMElement parentElement = null;
            //        String dummyParentEl = "<" + "parent xmlns=\"" + SynapseConstants.SYNAPSE_NAMESPACE + "\"
            // + "/" + ">";
            //        parentElement = AXIOMUtil.stringToOM(dummyParentEl);
            //        return new TemplateSerializer().serializeEndpointTemplate(template, parentElement).getFirstElement();
            return new TemplateSerializer().serializeEndpointTemplate(template, parentElement);
        } else {
            handleException("Template with the name "
                + templateName + " does not exist");
        }
    } catch (SynapseException syne) {
        handleException("Unable to get the endpoint template : " + templateName, syne);
    } catch (Exception fault) {
        handleException("Couldn't get the Synapse Configuration to get the Endpoint Template", fault);
    } finally {
        lock.unlock();
    }
    return null;
}

public void deleteEndpointTemplate(String templateName) throws AxisFault {

```

```

final Lock lock = getLock();
try {
    lock.lock();
    SynapseConfiguration synCfg = getSynapseConfiguration();
    Template sequence = synCfg.getEndpointTemplates().get(templateName);
    if (sequence != null) {
        synCfg.removeEndpointTemplate(templateName);
        MediationPersistenceManager pm = getMediationPersistenceManager();
        pm.deleteItem(templateName, sequence.getFileName(),
            ServiceBusConstants.ITEM_TYPE_TEMPLATE_ENDPOINTS);
    } else {
        handleException("No defined endpoint template with name " + templateName
            + " found to delete in the Synapse configuration");
    }
} catch (Exception fault) {
    handleException("Couldn't get the Synapse Configuration to delete the sequence", fault);
} finally {
    lock.unlock();
}
}

public void deleteDynamicEndpointTemplate(String key) throws AxisFault {
    SynapseConfiguration synConfig = getSynapseConfiguration();
    Registry registry = synConfig.getRegistry();
    if (registry != null) {
        if (registry.getRegistryEntry(key).getType() == null) {
            handleException("The key '" + key +
                "' cannot be found within the configuration");
        } else {
            registry.delete(key);
        }
    } else {
        handleException("Unable to access the registry instance for the ESB");
    }
}

public void saveEndpointTemplate(String templateConfig) throws AxisFault{
    try {
        saveEndpointTemplate(AXIOMUtil.stringToOM(templateConfig));
    } catch (XMLStreamException e) {
        handleException("unable to save Endpoint template ...invalid configuration element",e);
    }
}

private void saveEndpointTemplate(OMElement templateElement) throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();

```

```

if (templateElement != null && templateElement.getLocalName().equals(
    XMLConfigConstants.TEMPLATE_ELT.getLocalPart())) {
    String templateName = templateElement.getAttributeValue(new QName("name"));
    SynapseConfiguration config = getSynapseConfiguration();
    log.debug("Saving template : " + templateName);
    Template preSeq = config.getEndpointTemplates().get(templateName);
    if (preSeq == null) {
        handleException("Unable to save template " + templateName + ". Does not exist");
    } else {
        // we should first try to build the new sequence. if exception we return
        Template endpointTemplate = new TemplateFactory().createEndpointTemplate(
            templateElement, getSynapseConfiguration().getProperties());

        // if everything went successfully we remove the sequence
        config.removeEndpointTemplate(templateName);
        if (endpointTemplate instanceof Template) {
            ((Template) endpointTemplate).setFileName(preSeq.getFileName());
            config.addEndpointTemplate(templateName, endpointTemplate);
        }

        log.debug("Saved template : " + templateName + " to the configuration");

        Template templ = config.getEndpointTemplates().get(templateName);
        if (templ != null) {
//            templ.init(getSynapseEnvironment());
            persistTemplate(templ);
        }
    } else {
        handleException("Unable to save template. Invalid definition");
    }
} catch (Exception fault) {
    handleException("Unable to save the Template : " + fault.getMessage(), fault);
} finally {
    lock.unlock();
}
}

public void saveDynamicEndpointTemplate(String key, String sequenceConfig) throws AxisFault{
    try {
        saveDynamicEndpointTemplate(key, AXIOMUtil.stringToOM(sequenceConfig));
    } catch (XMLStreamException e) {
        handleException("unable to save dynamic template Endpoint...invalid configuration element",e);
    }
}

private void saveDynamicEndpointTemplate(String key, OMElement endpointTempalteEl) throws AxisFault {
    final Lock lock = getLock();

```

```

try {
    lock.lock();
    SynapseConfiguration synConfig = getSynapseConfiguration();
    Registry registry = synConfig.getRegistry();
    if (registry != null) {
        if (registry.getRegistryEntry(key).getType() == null) {
            handleException("Unable to save the template. No resource is available " +
                "by the key '" + key + "'");
        }
        registry.updateResource(key, endpointTemplate);
    } else {
        handleException("Unable to access the registry instance for the ESB");
    }
} finally {
    lock.unlock();
}
}

public void addEndpointTemplate(String templateElementConfig) throws AxisFault {
    try {
        addEndpointTemplate(AXIOMUtil.stringToOM(templateElementConfig));
    } catch (XMLStreamException e) {
        handleException("unable to save template Endpoint...invalid configuration element", e);
    }
}

private void addEndpointTemplate(OMElement templateElement) throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        if (templateElement.getLocalName().equals(
            XMLConfigConstants.TEMPLATE_ELT.getLocalPart())) {
            String templateName = templateElement.getAttributeValue(new QName("name"));
            SynapseConfiguration config = getSynapseConfiguration();
            if (log.isDebugEnabled()) {
                log.debug("Adding template : " + templateName + " to the configuration");
            }
            if (config.getLocalRegistry().get(templateName) != null) {
                handleException("The name '" + templateName +
                    "' is already used within the configuration");
            } else {
                SynapseXMLConfigurationFactory.defineEndpointTemplate(config, templateElement,
                    getSynapseConfiguration().getProperties());
                if (log.isDebugEnabled()) {
                    log.debug("Added template : " + templateName + " to the configuration");
                }
            }

            Template templ = config.getEndpointTemplates().get(templateName);

```

```

        templ.setFileName(ServiceBusUtils.generateFileName(templateName));
//        templ.init(getSynapseEnvironment());

        //noinspection ConstantConditions
        persistTemplate(templ);
    }
} else {
    handleException("Invalid template definition");
}
} catch (Exception fault) {
    handleException("Error adding template : " + fault.getMessage(), fault);
} catch (Error error) {
    throw new AxisFault("Unexpected error occurred while " +
        "adding the template : " + error.getMessage(), error);
} finally {
    lock.unlock();
}
}

public void addDynamicEndpointTemplate(String key, String sequenceConfig) throws AxisFault{
    try {
        addDynamicEndpointTemplate(key, AXIOMUtil.stringToOM(sequenceConfig));
    } catch (XMLStreamException e) {
        handleException("unable to save template Endpoint...invalid configuration element",e);
    }
}

private void addDynamicEndpointTemplate(String key, OMElement endpointTemplateEl) throws AxisFault {
    ByteArrayOutputStream stream = new ByteArrayOutputStream();
    stream.reset();
    try {
        XMLPrettyPrinter.prettify(endpointTemplateEl, stream);
    } catch (Exception e) {
        handleException("Unable to pretty print configuration",e);
    }
    try {
        org.wso2.carbon.registry.core.Registry registry;
        if(key.startsWith("conf:")) {
            registry = getConfigSystemRegistry();
            key = key.replace("conf:", "");
        } else {
            registry = getGovernanceRegistry();
            key = key.replace("gov:", "");
        }
        if(registry.resourceExists(key)){
            handleException("Resource is already exists");
        }
        Resource resource = registry.newResource();

```

```

        resource.setMediaType(WSO2_ENDPOINT_TEMPLATE_MEDIA_TYPE);
        resource.setContent(new String(stream.toByteArray()).trim());
        registry.put(key, resource);
    } catch (RegistryException e) {
        handleException("WSO2 Registry Exception", e);
    }
}

private void persistTemplate(Template template) throws AxisFault {
    if (template instanceof Template) {
        MediationPersistenceManager pm = getMediationPersistenceManager();
        pm.saveItem(((Template) template).getName(),
ServiceBusConstants.ITEM_TYPE_TEMPLATE_ENDPOINTS);
    }
}

private void handleException(String message, Throwable cause) throws AxisFault {
    log.error(message, cause);
    throw new AxisFault(message, cause);
}

private void handleException(String message) throws AxisFault {
    log.error(message);
    throw new AxisFault(message);
}

public boolean hasDuplicateTemplateEndpoint(String templateElementConfig) throws AxisFault {
    OMElement templateElement = null;
    try {
        templateElement = AXIOMUtil.stringToOM(templateElementConfig);
    }
    catch (XMLStreamException e) {
        handleException("unable to Checking template Endpoint...invalid configuration element", e);
    }
    if (templateElement!=null) {
        final Lock lock = getLock();
        try {
            lock.lock();
            if (templateElement.getLocalName().equals(
                XMLConfigConstants.TEMPLATE_ELT.getLocalPart()) {
                String templateName = templateElement.getAttributeValue(new QName("name"));
                SynapseConfiguration config = getSynapseConfiguration();
                if (log.isDebugEnabled()) {
                    log.debug("Checking template : " + templateName + " with existing configuration");
                }
                if (config.getLocalRegistry().get(templateName) != null) {
                    return true;
                }
            }
        }
    }
}

```



```

    }
    }
    } catch (Exception fault) {
        handleException("Error Checking template : " + fault.getMessage(), fault);
    } catch (Error error) {
        throw new AxisFault("Unexpected error occured while " +
            "Checking the template : " + error.getMessage(), error);
    } finally {
        lock.unlock();
    }
    }
    }
    return false;
}
}
/**
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 * limitations under the License.
 */

```

```
package org.wso2.carbon.mediation.templates.services;
```

```

import org.apache.axiom.om.OMElement;
import org.apache.axis2.AxisFault;
import org.apache.axis2.util.XMLPrettyPrinter;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.synapse.Mediator;
import org.apache.synapse.SynapseConstants;
import org.apache.synapse.SynapseException;
import org.apache.synapse.config.Entry;
import org.apache.synapse.config.SynapseConfiguration;
import org.apache.synapse.config.xml.MediatorFactoryFinder;
import org.apache.synapse.config.xml.MediatorSerializerFinder;
import org.apache.synapse.config.xml.SynapseXMLConfigurationFactory;
import org.apache.synapse.config.xml.XMLConfigConstants;
import org.apache.synapse.mediators.template.TemplateMediator;
import org.apache.synapse.registry.Registry;

```

```

import org.wso2.carbon.mediation.initializer.AbstractServiceBusAdmin;
import org.wso2.carbon.mediation.initializer.ServiceBusConstants;
import org.wso2.carbon.mediation.initializer.ServiceBusUtils;
import org.wso2.carbon.mediation.initializer.persistence.MediationPersistenceManager;
import org.wso2.carbon.mediation.templates.common.TemplateInfo;
import org.wso2.carbon.mediation.templates.common.factory.TemplateInfoFactory;
import org.wso2.carbon.registry.core.Resource;
import org.wso2.carbon.registry.core.exceptions.RegistryException;

import javax.xml.namespace.QName;
import java.io.ByteArrayOutputStream;
import java.util.*;
import java.util.concurrent.locks.Lock;

/**
 * Takes care of all the administration activities related to <code>Sequences</code>
 * in the initialized synapse environment</p>
 * <p/>
 * <p>The administration activities include;</p>
 * <ul>
 * <li>Adding templates</li>
 * <li>Editing templates</li>
 * <li>Saving templates</li>
 * <li>Deleting templates</li>
 * <li>Enabling/disabling statistics/tracing of templates</li>
 * <li>Editing of dynamic templates</li>
 * <li>and so on...</li>
 * </ul>
 */
@SuppressWarnings({"UnusedDeclaration"})
public class TemplateEditorAdmin extends AbstractServiceBusAdmin {

    private static final Log log = LogFactory.getLog(TemplateEditorAdmin.class);

    //TODO: Move WSO2_TEMPLATE_MEDIA_TYPE to registry
    public static final String WSO2_TEMPLATE_MEDIA_TYPE = "application/vnd.wso2.template";

    public TemplateInfo[] getTemplates(int pageNumber, int templatePerPage)
        throws AxisFault {
        final Lock lock = getLock();
        Collection<TemplateMediator> templates = null;
        try {
            lock.lock();
            templates = getSynapseConfiguration().getSequenceTemplates().values();

            TemplateInfo[] info = TemplateInfoFactory.getSortedTemplateInfoArray(templates);
            TemplateInfo[] ret;

```

```

    if (info.length >= (templatePerPage * pageNumber + templatePerPage)) {
        ret = new TemplateInfo[templatePerPage];
    } else {
        ret = new TemplateInfo[info.length - (templatePerPage * pageNumber)];
    }
    for (int i = 0; i < templatePerPage; ++i) {
        if (ret.length > i) {
            ret[i] = info[templatePerPage * pageNumber + i];
        }
    }
    return ret;
} catch (Exception fault) {
    handleException("Couldn't get the Synapse Configuration to " +
        "get the available templates", fault);
} finally {
    lock.unlock();
}
return null;
}

```

```

public int getTemplatesCount() throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        return getSynapseConfiguration().getSequenceTemplates().values().size();
    } catch (Exception e) {
        handleException("Couldn't get the Synapse Configuration to get Sequence count", e);
    } finally {
        lock.unlock();
    }
    return 0;
}

```

```

@SuppressWarnings({"unchecked"})
public TemplateInfo[] getDynamicTemplates(int pageNumber, int sequencePerPage)
    throws AxisFault {

    org.wso2.carbon.registry.core.Registry registry;
    TemplateInfo[] ret;
    final Lock lock = getLock();
    try {
        lock.lock();
        String[] configInfo = getConfigSystemRegistry() !=
null?getMimeTypeResult(getConfigSystemRegistry()):new String[0];
        String[] govInfo = getGovernanceRegistry() != null?getMimeTypeResult(getGovernanceRegistry()): new
String[0];
        String[] info = new String[configInfo.length + govInfo.length];

```

```

int ptr = 0;
for (String aConfigInfo : configInfo) {
    info[ptr] = "conf:" + aConfigInfo;
    ++ptr;
}
for (String aGovInfo : govInfo) {
    info[ptr] = "gov:" + aGovInfo;
    ++ptr;
}
Arrays.sort(info);
if (info.length >= (sequencePerPage * pageNumber + sequencePerPage)) {
    ret = new TemplateInfo[sequencePerPage];
} else {
    ret = new TemplateInfo[info.length - (sequencePerPage * pageNumber)];
}
for (int i = 0; i < sequencePerPage; ++i) {
    if (ret.length > i) {
        TemplateInfo seq = new TemplateInfo();
        seq.setName(info[sequencePerPage * pageNumber + i]);
        ret[i] = seq;
    }
}
} catch (Exception e) {
    handleException("Unable to get Dynamic Template Info",e);
    return null;
} finally {
    lock.unlock();
}
return ret;
}

```

```

public int getDynamicTemplateCount() throws AxisFault {
    try {
        String[] govList = getGovernanceRegistry() != null ? getMimeTypeResult(getGovernanceRegistry()):new
String[0];
        String[] confList = getConfigSystemRegistry() != null ? getMimeTypeResult(getConfigSystemRegistry()):new
String[0];
        return confList.length + govList.length;
    } catch (Exception e) {
        return 0;
    }
}

```

```

@SuppressWarnings({"unchecked"})
private String[] getMimeTypeResult(org.wso2.carbon.registry.core.Registry targetRegistry)
throws Exception {

```

```

String sql = "SELECT REG_PATH_ID, REG_NAME FROM REG_RESOURCE WHERE
REG_MEDIA_TYPE = ?";
Map parameters = new HashMap();
parameters.put("query", sql);
parameters.put("1", WSO2_TEMPLATE_MEDIA_TYPE);
Resource result = targetRegistry.executeQuery(null, parameters);
return (String[]) result.getContent();
}

/*
*/

/**
 * Deletes the sequence with the given name from SynapseConfiguration
 *
 * @param templateName - Name of the sequence to delete
 * @throws AxisFault if the Sequence described by the given name doesnt
 *         exists in the Synapse Configuration
 */
public void deleteTemplate(String templateName) throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        SynapseConfiguration synCfg = getSynapseConfiguration();
        TemplateMediator sequence = synCfg.getSequenceTemplates().get(templateName);
        if (sequence != null) {
            synCfg.removeSequenceTemplate(templateName);
            MediationPersistenceManager pm = getMediationPersistenceManager();
            pm.deleteItem(templateName, sequence.getFileName(),
                ServiceBusConstants.ITEM_TYPE_TEMPLATE);
        } else {
            handleException("No defined sequence with name " + templateName
                + " found to delete in the Synapse configuration");
        }
    } catch (Exception fault) {
        handleException("Couldn't get the Synapse Configuration to delete the sequence", fault);
    } finally {
        lock.unlock();
    }
}

/**
 * Returns the OMElement representation of the sequence given by sequence
 * name
 *
 * @param templateName - name of the sequence to get
 * @return OMElement representing the SequenceMediator of the given sequence

```

```

*   name
* @throws AxisFault if any error occurred while getting the data from the
*       SynapseConfiguration
*/
public OMElement getTemplate(String templateName) throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        SynapseConfiguration synapseConfiguration = getSynapseConfiguration();
        TemplateMediator template = synapseConfiguration.getSequenceTemplate(templateName);
        if (template != null) {
            return MediatorSerializerFinder.getInstance().getSerializer(
                template).serializeMediator(null, template);
        } else {
            handleException("Template with the name "
                + templateName + " does not exist");
        }
    } catch (SynapseException syne) {
        handleException("Unable to get the sequence : " + templateName, syne);
    } catch (Exception fault) {
        handleException("Couldn't get the Synapse Configuration to get the Template", fault);
    } finally {
        lock.unlock();
    }
    return null;
}

```

```

/**
* Add a sequence into the synapseConfiguration
*
* @param templateElement - Sequence object to be added as an OMElement
* @throws AxisFault if a sequence exists with the same name or if the
*       element provided is not a Sequence element
*/
public void addTemplate(OMElement templateElement) throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        if (templateElement.getLocalName().equals(
            XMLConfigConstants.TEMPLATE_ELT.getLocalPart())) {
            String templateName = templateElement.getAttributeValue(new QName("name"));
            SynapseConfiguration config = getSynapseConfiguration();
            if (log.isDebugEnabled()) {
                log.debug("Adding template : " + templateName + " to the configuration");
            }
            if (config.getLocalRegistry().get(templateName) != null) {
                handleException("The name '" + templateName +

```

```

        " is already used within the configuration");
    } else {
        SynapseXMLConfigurationFactory.defineTemplate(config, templateElement,
            getSynapseConfiguration().getProperties());
        if (log.isDebugEnabled()) {
            log.debug("Added template : " + templateName + " to the configuration");
        }

        TemplateMediator templ = config.getSequenceTemplates().get(templateName);
        templ.setFileName(ServiceBusUtils.generateFileName(templateName));
        templ.init(getSynapseEnvironment());

        //noinspection ConstantConditions
        persistTemplate(templ);
    }
} else {
    handleException("Invalid template definition");
}
} catch (Exception fault) {
    handleException("Error adding template : " + fault.getMessage(), fault);
} catch (Error error) {
    throw new AxisFault("Unexpected error occurred while " +
        "adding the template : " + error.getMessage(), error);
} finally {
    lock.unlock();
}
}

/**
 * Saves the sequence described with the sequence string
 *
 * @param templateElement - String representing the XML describing the
 *     Sequence
 * @throws AxisFault if the sequence name already exists or if the string
 *     doesn't represent a Sequence element
 */
public void saveTemplate(OMElement templateElement) throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        if (templateElement != null && templateElement.getLocalName().equals(
            XMLConfigConstants.TEMPLATE_ELT.getLocalPart())) {
            String templateName = templateElement.getAttributeValue(new QName("name"));
            SynapseConfiguration config = getSynapseConfiguration();
            log.debug("Saving template : " + templateName);
            TemplateMediator preSeq = config.getSequenceTemplates().get(templateName);
            if (preSeq == null) {

```

```

        handleException("Unable to save template " + templateName + ". Does not exist");
    } else {
        // we should first try to build the new sequence. if exception we return
        Mediator mediator = MediatorFactoryFinder.getInstance().getMediator(
            templateElement, getSynapseConfiguration().getProperties());

        boolean statisticsEnable = preSeq.isStatisticsEnable();
        // if everything went successfully we remove the sequence
        config.removeSequenceTemplate(templateName);
        if (mediator instanceof TemplateMediator) {
            if (statisticsEnable) {
                ((TemplateMediator) mediator).enableStatistics();
            }
            ((TemplateMediator) mediator).setFileName(preSeq.getFileName());
            config.addSequenceTemplate(templateName, (TemplateMediator) mediator);
        }

        log.debug("Saved template : " + templateName + " to the configuration");

        TemplateMediator templ = config.getSequenceTemplates().get(templateName);
        if (templ != null) {
            templ.init(getSynapseEnvironment());
            persistTemplate(templ);
        }
    } else {
        handleException("Unable to save template. Invalid definition");
    }
} catch (Exception fault) {
    handleException("Unable to save the Template : " + fault.getMessage(), fault);
} finally {
    lock.unlock();
}
}

public String enableStatistics(String templateName) throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        TemplateMediator template;
        template = (TemplateMediator) getSynapseConfiguration().getSequenceTemplate(templateName);
        if (template != null) {
            template.enableStatistics();
            persistTemplate(template);
            return templateName;
        } else {
            handleException("No defined template with name " + templateName
                + " found to enable statistics in the Synapse configuration");
        }
    }
}

```



```

    }
} catch (Exception fault) {
    handleException("Couldn't enable statistics of the template " + templateName
        + " : " + fault.getMessage(), fault);
} finally {
    lock.unlock();
}
}
return null;
}

public String disableStatistics(String templateName) throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        TemplateMediator template;
        template = (TemplateMediator) getSynapseConfiguration().getSequenceTemplate(templateName);
        if (template != null) {
            template.disableStatistics();
            persistTemplate(template);
            return templateName;
        } else {
            handleException("No defined template with name " + templateName
                + " found to disable statistics in the Synapse configuration");
        }
    } catch (Exception fault) {
        handleException("Couldn't disable statistics of the template " + templateName
            + " : " + fault.getMessage(), fault);
    } finally {
        lock.unlock();
    }
    return null;
}

public String enableTracing(String templateName) throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        TemplateMediator template;
        template = (TemplateMediator) getSynapseConfiguration().getSequenceTemplate(templateName);
        if (template != null) {
            template.setTraceState(SynapseConstants.TRACING_ON);
            persistTemplate(template);
            return templateName;
        } else {
            handleException("No defined template with name " + templateName
                + " found to enable tracing in the Synapse configuration");
        }
    } catch (Exception fault) {

```

```

        handleException("Couldn't enable tracing of the template " + templateName
            + " : " + fault.getMessage(), fault);
    } finally {
        lock.unlock();
    }
    return null;
}

public String disableTracing(String templateName) throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        TemplateMediator template;
        template = (TemplateMediator) getSynapseConfiguration().getSequenceTemplate(templateName);
        if (template != null) {
            template.setTraceState(SynapseConstants.TRACING_OFF);
            persistTemplate(template);
            return templateName;
        } else {
            handleException("No defined template with name " + templateName
                + " found to disable tracing in the Synapse configuration");
        }
    } catch (Exception fault) {
        handleException("Couldn't disable tracing of the template " + templateName
            + " : " + fault.getMessage(), fault);
    } finally {
        lock.unlock();
    }
    return null;
}

private void handleException(String message, Throwable cause) throws AxisFault {
    log.error(message, cause);
    throw new AxisFault(message, cause);
}

private void handleException(String message) throws AxisFault {
    log.error(message);
    throw new AxisFault(message);
}

/*
public String getEntryNamesString() throws SequenceEditorException {
    final Lock lock = getLock();
    try {
        lock.lock();
        SynapseConfiguration synapseConfiguration = getSynapseConfiguration();
        Map globalEntriesMap = synapseConfiguration.getLocalRegistry();

```

```

List<String> sequenceList = new ArrayList<String>();
List<String> endpointList = new ArrayList<String>();
List<String> entryList = new ArrayList<String>();
StringBuffer entrySb = new StringBuffer();
StringBuffer endpointSb = new StringBuffer();
StringBuffer sequenceSb = new StringBuffer();
for (Object entryValue : globalEntriesMap.values()) {

    if (entryValue instanceof Endpoint) {
        Endpoint endpoint = (Endpoint) entryValue;
        String name = endpoint.getName();
        if (name != null) {
            endpointList.add(name);
        }
    } else if (entryValue instanceof SequenceMediator) {
        SequenceMediator sequenceMediator = (SequenceMediator) entryValue;
        String name = sequenceMediator.getName();
        if (name != null) {
            sequenceList.add(name);
        }
    } else if (entryValue instanceof Entry) {
        Entry entry = (Entry) entryValue;

        if (!entry.isDynamic() && !entry.isRemote()) { // only care pre-defined local entries
            String key = entry.getKey();
            if (SynapseConstants.SERVER_IP.equals(key)
                || SynapseConstants.SERVER_HOST.equals(key)) {
                continue;
            }
            entryList.add(key);
        }
    }
}

if (!sequenceList.isEmpty()) {

    Collections.sort(sequenceList, new Comparator<String>() {
        public int compare(String o1, String o2) {
            return o1.compareToIgnoreCase(o2);
        }
    });
    for (String name : sequenceList) {
        if (name != null) {
            sequenceSb.append("[Sequence]-").append(name).append(" ");
        }
    }
}
}

```

```

if (!entryList.isEmpty()) {

    Collections.sort(entryList, new Comparator<String>() {
        public int compare(String o1, String o2) {
            return o1.compareToIgnoreCase(o2);
        }
    });
    for (String name : entryList) {
        if (name != null) {
            entrySb.append("[Entry]-").append(name).append(" ");
        }
    }
}

if (!endpointList.isEmpty()) {

    Collections.sort(endpointList, new Comparator<String>() {
        public int compare(String o1, String o2) {
            return o1.compareToIgnoreCase(o2);
        }
    });
    for (String name : endpointList) {
        if (name != null) {
            endpointSb.append("[Endpoint]-").append(name).append(" ");
        }
    }
}
return endpointSb.toString() + entrySb.toString() + sequenceSb.toString();
} catch (Exception axisFault) {
    handleException("Error during retrieving local registry", axisFault);
} finally {
    lock.unlock();
}
return "";
}
*/

```

```

public void updateDynamicTemplate(String key, OMElement omElement)
    throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        deleteDynamicTemplate(key);
        addDynamicTemplate(key, omElement);
    } finally {
        lock.unlock();
    }
}

```

```

public void deleteDynamicTemplate(String key) throws AxisFault {
    SynapseConfiguration synConfig = getSynapseConfiguration();
    Registry registry = synConfig.getRegistry();
    if (registry != null) {
        if (registry.getRegistryEntry(key).getType() == null) {
            handleException("The key '" + key +
                "' cannot be found within the configuration");
        } else {
            registry.delete(key);
        }
    } else {
        handleException("Unable to access the registry instance for the ESB");
    }
}

public void addDynamicTemplate(String key, OMElement sequence) throws AxisFault {
    ByteArrayOutputStream stream = new ByteArrayOutputStream();
    stream.reset();
    try {
        XMLPrettyPrinter.prettify(sequence, stream);
    } catch (Exception e) {
        handleException("Unable to pretty print configuration",e);
    }
    try {
        org.wso2.carbon.registry.core.Registry registry;
        if(key.startsWith("conf:")) {
            registry = getConfigSystemRegistry();
            key = key.replace("conf:", "");
        } else {
            registry = getGovernanceRegistry();
            key = key.replace("gov:", "");
        }
        if(registry.resourceExists(key)){
            handleException("Resource is already exists");
        }
        Resource resource = registry.newResource();
        resource.setMediaType(WSO2_TEMPLATE_MEDIA_TYPE);
        resource.setContent(new String(stream.toByteArray()).trim());
        registry.put(key, resource);
    } catch (RegistryException e) {
        handleException("WSO2 Registry Exception", e);
    }
}

public OMElement getDynamicTemplate(String key) throws AxisFault {
    final Lock lock = getLock();
    try {

```

```

lock.lock();
SynapseConfiguration synConfig = getSynapseConfiguration();
Registry registry = synConfig.getRegistry();
if (registry != null) {
    if (registry.getRegistryEntry(key).getType() == null) {
        handleException("No resource is available by the key '" + key + "'");
    }
    return (OMElement) registry.getResource(new Entry(key),
        getSynapseConfiguration().getProperties());
} else {
    handleException("Unable to access the registry instance for the ESB");
}
} finally {
    lock.unlock();
}
}
return null;
}

public void saveDynamicTemplate(String key, OMElement sequence) throws AxisFault {
    final Lock lock = getLock();
    try {
        lock.lock();
        SynapseConfiguration synConfig = getSynapseConfiguration();
        Registry registry = synConfig.getRegistry();
        if (registry != null) {
            if (registry.getRegistryEntry(key).getType() == null) {
                handleException("Unable to save the template. No resource is available " +
                    "by the key '" + key + "'");
            }
            registry.updateResource(key, sequence);
        } else {
            handleException("Unable to access the registry instance for the ESB");
        }
    } finally {
        lock.unlock();
    }
}

/*
public ConfigurationObject[] getDependents(String template) {
    DependencyManagementService dependencyMgr = ConfigHolder.getInstance().
        getDependencyManager();
    if (dependencyMgr != null) {
        org.wso2.carbon.mediation.dependency.mgt.ConfigurationObject[] tempDependents =
            dependencyMgr.getDependents(org.wso2.carbon.mediation.dependency.mgt
                .ConfigurationObject.TYPE_SEQUENCE,
                template);
        if (tempDependents != null && tempDependents.length > 0) {

```

```

List<ConfigurationObject> dependents = new ArrayList<ConfigurationObject>();
for (int i = 0; i < tempDependents.length; i++) {
    if (tempDependents[i].getType() !=
        org.wso2.carbon.mediation.dependency.mgt.ConfigurationObject.TYPE_UNKNOWN) {
        dependents.add(new ConfigurationObject(tempDependents[i].getType(),
            tempDependents[i].getId()));
    }
}

if (dependents.size() > 0) {
    return dependents.toArray(new ConfigurationObject[dependents.size()]);
}
}
return null;
}
*/

private void persistTemplate(Mediator template) throws AxisFault {
    if (template instanceof TemplateMediator) {
        MediationPersistenceManager pm = getMediationPersistenceManager();
        pm.saveItem(((TemplateMediator) template).getName(), ServiceBusConstants.ITEM_TYPE_TEMPLATE);
    }
}
}
/**
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.wso2.carbon.mediation.templates.internal;

import org.apache.axis2.AxisFault;
import org.apache.axis2.deployment.DeploymentEngine;
import org.apache.axis2.engine.AxisConfiguration;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

```

```

import org.apache.synapse.config.SynapseConfiguration;
import org.apache.synapse.config.xml.MultiXMLConfigurationBuilder;
import org.apache.synapse.deployers.SynapseArtifactDeploymentStore;
import org.apache.synapse.deployers.TemplateDeployer;
import org.apache.synapse.endpoints.Template;
import org.apache.synapse.mediators.base.SequenceMediator;
import org.apache.synapse.core.SynapseEnvironment;
import org.apache.synapse.mediators.template.TemplateMediator;
import org.osgi.service.component.ComponentContext;
import org.wso2.carbon.mediation.dependency.mgt.services.DependencyManagementService;
import org.wso2.carbon.mediation.initializer.ServiceBusConstants;
import org.wso2.carbon.mediation.initializer.ServiceBusUtils;
import org.wso2.carbon.mediation.initializer.services.SynapseConfigurationService;
import org.wso2.carbon.mediation.initializer.services.SynapseEnvironmentService;
import org.wso2.carbon.mediation.initializer.services.SynapseRegistrationsService;
import org.wso2.carbon.mediation.templates.TemplateDeploymentInterceptor;
import org.wso2.carbon.registry.core.service.RegistryService;
import org.wso2.carbon.utils.ConfigurationContextService;
import org.wso2.carbon.utils.multitenancy.MultitenantConstants;
import org.apache.axis2.context.ConfigurationContext;
import org.osgi.framework.BundleContext;
import org.wso2.carbon.context.PrivilegedCarbonContext;
import org.wso2.carbon.utils.AbstractAxis2ConfigurationContextObserver;
import org.wso2.carbon.utils.Axis2ConfigurationContextObserver;

```

```

import java.io.File;
import java.util.Map;
import java.util.Set;

```

```

/**
 * @scr.component name="org.wso2.carbon.templates" immediate="true"
 * @scr.reference name="configuration.context.service"
 * interface="org.wso2.carbon.utils.ConfigurationContextService" cardinality="1..1"
 * policy="dynamic" bind="setConfigurationContextService" unbind="unsetConfigurationContextService"
 * @scr.reference name="synapse.config.service"
 * interface="org.wso2.carbon.mediation.initializer.services.SynapseConfigurationService"
 * cardinality="1..1" policy="dynamic" bind="setSynapseConfigurationService"
 * unbind="unsetSynapseConfigurationService"
 * @scr.reference name="synapse.env.service"
 * interface="org.wso2.carbon.mediation.initializer.services.SynapseEnvironmentService"
 * cardinality="1..n" policy="dynamic" bind="setSynapseEnvironmentService"
 * unbind="unsetSynapseEnvironmentService"
 * @scr.reference name="registry.service"
 * interface="org.wso2.carbon.registry.core.service.RegistryService"
 * cardinality="1..1" policy="dynamic"
 * bind="setRegistryService" unbind="unsetRegistryService"
 * @scr.reference name="dependency.mgt.service"

```



```

* interface="org.wso2.carbon.mediation.dependency.mgt.services.DependencyManagementService"
* cardinality="1..1" policy="dynamic"
* bind="setDependencyManager" unbind="unsetDependencyManager"
* @scr.reference name="synapse.registrations.service"
* interface="org.wso2.carbon.mediation.initializer.services.SynapseRegistrationsService"
* cardinality="1..n" policy="dynamic" bind="setSynapseRegistrationsService"
* unbind="unsetSynapseRegistrationsService"
*/
@SuppressWarnings({"UnusedDeclaration", "JavaDoc"})
public class TemplateEditorServiceComponent extends AbstractAxis2ConfigurationContextObserver {

    private static final Log log = LogFactory.getLog(TemplateEditorServiceComponent.class);

    private SynapseEnvironment synapseEnvironment;

    private boolean activated = false;

    protected void activate(ComponentContext context) {
        try {
            BundleContext bndCtx = context.getBundleContext();
            bndCtx.registerService(Axis2ConfigurationContextObserver.class.getName(), this, null);

            SynapseEnvironmentService synEnvService =
                ConfigHolder.getInstance().getSynapseEnvironmentService(
                    MultitenantConstants.SUPER_TENANT_ID);

            registerDeployer(ConfigHolder.getInstance().getAxisConfiguration(),
                synEnvService.getSynapseEnvironment());
            if (log.isDebugEnabled()) {
                log.debug("Sequence Admin bundle is activated ");
            }
            activated = true;
        } catch (Throwable e) {
            log.error("Failed to activate Sequence Admin bundle ", e);
        }
    }

    public void createdConfigurationContext(ConfigurationContext configContext) {
        AxisConfiguration axisConfig = configContext.getAxisConfiguration();
        int tenantId = PrivilegedCarbonContext.getThreadLocalCarbonContext().getTenantId();
        if (axisConfig != null) {
            SynapseEnvironmentService synEnvService =
                ConfigHolder.getInstance().getSynapseEnvironmentService(tenantId);
            if (synEnvService != null) {
                try {
                    registerDeployer(axisConfig, synEnvService.getSynapseEnvironment());
                } catch (Exception e) {
                    log.error("Error while initializing TemplateEditor Admin",e);
                }
            }
        }
    }
}

```

```

    }
  }
}

protected void deactivate(ComponentContext context) {
    Set<Map.Entry<Integer, SynapseEnvironmentService>> entrySet =
        ConfigHolder.getInstance().getSynapseEnvironmentServices().entrySet();
    for (Map.Entry<Integer, SynapseEnvironmentService> entry : entrySet) {
        unregisterDeployer(
            entry.getValue().getConfigurationContext().getAxisConfiguration(),
            entry.getValue().getSynapseEnvironment());
    }
}

/**
 * Un-registers the sequence.
 *
 * @param axisConfig    AxisConfiguration to which this deployer belongs
 * @param synapseEnvironment SynapseEnvironment to which this deployer belongs
 */
private void unregisterDeployer(AxisConfiguration axisConfig, SynapseEnvironment synapseEnvironment) {
    if (axisConfig != null) {
        DeploymentEngine deploymentEngine = (DeploymentEngine) axisConfig.getConfigurator();
        String synapseConfigPath = ServiceBusUtils.getSynapseConfigAbsPath(
            synapseEnvironment.getServerContextInformation());
        String templatesDirPath = synapseConfigPath
            + File.separator + MultiXMLConfigurationBuilder.TEMPLATES_DIR;
        deploymentEngine.removeDeployer(
            templatesDirPath, ServiceBusConstants.ARTIFACT_EXTENSION);
    }
}

/**
 * Registers the sequence.
 *
 * @param axisConfig    AxisConfiguration to which this deployer belongs
 * @param synapseEnvironment SynapseEnvironment to which this deployer belongs
 */
private void registerDeployer(AxisConfiguration axisConfig, SynapseEnvironment synapseEnvironment)
    throws AxisFault {
    SynapseConfiguration synCfg = synapseEnvironment.getSynapseConfiguration();
    DeploymentEngine deploymentEngine = (DeploymentEngine) axisConfig.getConfigurator();
    SynapseArtifactDeploymentStore deploymentStore = synCfg.getArtifactDeploymentStore();

    String synapseConfigPath = ServiceBusUtils.getSynapseConfigAbsPath(
        synapseEnvironment.getServerContextInformation());
    String templateDirPath = synapseConfigPath

```

```

+ File.separator + MultiXMLConfigurationBuilder.TEMPLATES_DIR;

for (TemplateMediator seqTempl : synCfg.getSequenceTemplates().values()) {
    if (seqTempl.getFileName() != null) {
        deploymentStore.addRestoredArtifact(
            templateDirPath + File.separator + seqTempl.getFileName());
    }
}

for (Template epTempl : synCfg.getEndpointTemplates().values()) {
    if (epTempl.getFileName() != null) {
        deploymentStore.addRestoredArtifact(
            templateDirPath + File.separator + epTempl.getFileName());
    }
}
deploymentEngine.addDeployer(new TemplateDeployer(),
    templateDirPath, ServiceBusConstants.ARTIFACT_EXTENSION);
}

protected void setConfigurationContextService(ConfigurationContextService cfgCtxService) {
    ConfigHolder.getInstance().setAxisConfiguration(
        cfgCtxService.getServerConfigContext().getAxisConfiguration());
}

protected void unsetConfigurationContextService(ConfigurationContextService cfgCtxService) {
    ConfigHolder.getInstance().setAxisConfiguration(null);
}

protected void setSynapseConfigurationService(
    SynapseConfigurationService synapseConfigurationService) {

    ConfigHolder.getInstance().setSynapseConfiguration(
        synapseConfigurationService.getSynapseConfiguration());
}

protected void unsetSynapseConfigurationService(
    SynapseConfigurationService synapseConfigurationService) {

    ConfigHolder.getInstance().setSynapseConfiguration(null);
}

/**
 * Here we receive an event about the creation of a SynapseEnvironment. If this is
 * SuperTenant we have to wait until all the other constraints are met and actual
 * initialization is done in the activate method. Otherwise we have to do the activation here.
 *
 * @param synapseEnvironmentService SynapseEnvironmentService which contains information
 * about the new Synapse Instance
 */

```

```

*/
protected void setSynapseEnvironmentService(
    SynapseEnvironmentService synapseEnvironmentService) {
    boolean alreadyCreated = ConfigHolder.getInstance().getSynapseEnvironmentServices().
        containsKey(synapseEnvironmentService.getTenantId());

    ConfigHolder.getInstance().addSynapseEnvironmentService(
        synapseEnvironmentService.getTenantId(),
        synapseEnvironmentService);
    if (activated) {
        if (!alreadyCreated) {
            try {
                registerDeployer(synapseEnvironmentService.getConfigurationContext().getAxisConfiguration(),
                    synapseEnvironmentService.getSynapseEnvironment());
                if (log.isDebugEnabled()) {
                    log.debug("Sequence Admin bundle is activated ");
                }
            } catch (Throwable e) {
                log.error("Failed to activate Sequence Admin bundle ", e);
            }
        }
    }
}

/**
 * Here we receive an event about Destroying a SynapseEnvironment. This can be the super tenant
 * destruction or a tenant destruction.
 *
 * @param synapseEnvironmentService synapseEnvironment
 */
protected void unsetSynapseEnvironmentService(
    SynapseEnvironmentService synapseEnvironmentService) {
    ConfigHolder.getInstance().removeSynapseEnvironmentService(
        synapseEnvironmentService.getTenantId());
}

protected void setRegistryService(RegistryService regService) {
    if (log.isDebugEnabled()) {
        log.debug("RegistryService bound to the ESB initialization process");
    }
}

protected void unsetRegistryService(RegistryService regService) {
    if (log.isDebugEnabled()) {
        log.debug("RegistryService unbound from the ESB environment");
    }
}

```

```

protected void setDependencyManager(DependencyManagementService dependencyMgr) {
    if (log.isDebugEnabled()) {
        log.debug("Dependency management service bound to the endpoint component");
    }
    ConfigHolder.getInstance().setDependencyManager(dependencyMgr);
}

protected void unsetDependencyManager(DependencyManagementService dependencyMgr) {
    if (log.isDebugEnabled()) {
        log.debug("Dependency management service unbound from the endpoint component");
    }
    ConfigHolder.getInstance().setDependencyManager(null);
}

protected void setSynapseRegistrationsService(
    SynapseRegistrationsService synapseRegistrationsService) {
}

protected void unsetSynapseRegistrationsService(
    SynapseRegistrationsService synapseRegistrationsService) {
    int tenantId = synapseRegistrationsService.getTenantId();
    if (ConfigHolder.getInstance().getSynapseEnvironmentServices().containsKey(tenantId)) {
        SynapseEnvironment env = ConfigHolder.getInstance().
            getSynapseEnvironmentService(tenantId).getSynapseEnvironment();

        ConfigHolder.getInstance().removeSynapseEnvironmentService(
            synapseRegistrationsService.getTenantId());

        AxisConfiguration axisConfig = synapseRegistrationsService.getConfigurationContext().
            getAxisConfiguration();
        if (axisConfig != null) {
            unregisterDeployer(axisConfig, env);
        }
    }
}

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```

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*/

```
package org.wso2.carbon.mediation.templates;

import org.apache.axiom.om.OMElement;
import org.apache.axis2.context.ConfigurationContext;
import org.apache.synapse.deployers.SequenceDeployer;
import org.wso2.carbon.mediation.initializer.ServiceBusConstants;
import org.wso2.carbon.mediation.initializer.ServiceBusUtils;
import org.wso2.carbon.mediation.initializer.persistence.MediationPersistenceManager;

import java.util.Properties;

/**
 * Takes care of deploying sequences on the carbon environment.</p>
 *
 * <p>This deployer actually intercepts the deployment of the <code>sequences</code>
 * to the Synapse environment from the { @link org.apache.synapse.deployers.SequenceDeployer }
 * and handles the persistence to the registry on the carbon environment.
 */
public class TemplateDeploymentInterceptor extends SequenceDeployer {

    MediationPersistenceManager mpm;

    @Override
    public void init(ConfigurationContext configCtx) {
        super.init(configCtx);
        mpm = ServiceBusUtils.getMediationPersistenceManager(configCtx.getAxisConfiguration());
    }

    @Override
    public String deploySynapseArtifact(OMElement artifactConfig, String fileName,
        Properties properties) {
        String seqName = super.deploySynapseArtifact(artifactConfig, fileName, properties);
        mpm.saveItemToRegistry(seqName, ServiceBusConstants.ITEM_TYPE_SEQUENCE);
        return seqName;
    }

    @Override
    public String updateSynapseArtifact(OMElement artifactConfig, String fileName,
        String existingArtifactName, Properties properties) {
        String seqName = super.updateSynapseArtifact(
            artifactConfig, fileName, existingArtifactName, properties);
        mpm.saveItemToRegistry(seqName, ServiceBusConstants.ITEM_TYPE_SEQUENCE);
        return seqName;
    }
}
```

```

@Override
public void undeploySynapseArtifact(String artifactName) {
    super.undeploySynapseArtifact(artifactName);
    mpm.deleteItemFromRegistry(artifactName, ServiceBusConstants.ITEM_TYPE_SEQUENCE);
}

@Override
public void restoreSynapseArtifact(String artifactName) {
    super.restoreSynapseArtifact(artifactName);
    mpm.saveItemToRegistry(artifactName, ServiceBusConstants.ITEM_TYPE_SEQUENCE);
}
}

```

1.682

org.wso2.carbon.mediation.templates.common 4.2.0

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```

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 */
package org.wso2.carbon.mediation.templates.common.factory;

import org.apache.axiom.om.OMElement;
import org.apache.synapse.SynapseConstants;
import org.apache.synapse.endpoints.Template;
import org.apache.synapse.mediators.template.TemplateMediator;
import org.wso2.carbon.mediation.templates.common.EndpointTemplateInfo;
import org.wso2.carbon.mediation.templates.common.TemplateInfo;

```

```

import javax.xml.namespace.QName;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Comparator;

public class TemplateInfoFactory {

    /**
     * Creates an instance of { @link org.wso2.carbon.mediation.templates.common.TemplateInfo } from the
     * provided <code>sequenceMediator</code>
     *
     * @param sequenceMediator of which the { @link org.wso2.carbon.mediation.templates.common.TemplateInfo }
     * object needs to be created
     * @return info object relevant to the sequenceMediator
     */
    public static TemplateInfo createTemplateInfo(TemplateMediator sequenceMediator) {

        TemplateInfo templateInfo = new TemplateInfo();
        templateInfo.setName(sequenceMediator.getName());
        templateInfo.setDescription(sequenceMediator.getDescription());

        if (sequenceMediator.isStatisticsEnable()) {
            templateInfo.setEnableStatistics(true);
        } else {
            templateInfo.setEnableStatistics(false);
        }

        if(sequenceMediator.getTraceState() == SynapseConstants.TRACING_ON) {
            templateInfo.setEnableTracing(true);
        } else {
            templateInfo.setEnableTracing(false);
        }

        return templateInfo;
    }

    public static EndpointTemplateInfo createTemplateInfo(Template endpointTemplate) {

        EndpointTemplateInfo templateInfo = new EndpointTemplateInfo();
        templateInfo.setTemplateName(endpointTemplate.getName());
        templateInfo.setDescription(endpointTemplate.getDescription());
        templateInfo.setEndpointType(getEndpointTypeFromTemplate(endpointTemplate.getElement()));
        return templateInfo;
    }

    public static String getEndpointTypeFromTemplate(OMElement templateEl) {
        String type = "none";

```



```

    OMElement addressElement = templateEl.getFirstChildWithName(new
QName(SynapseConstants.SYNAPSE_NAMESPACE,
        "address"));

    if (addressElement != null) {
        type = "address";
        return type;
    }

    OMElement wsdlElement = templateEl.getFirstChildWithName(new
QName(SynapseConstants.SYNAPSE_NAMESPACE,
        "wsdl"));

    if (wsdlElement != null) {
        type = "wsdl";
        return type;
    }

    OMElement defaultElement = templateEl.getFirstChildWithName(new
QName(SynapseConstants.SYNAPSE_NAMESPACE,
        "default"));

    if (defaultElement != null) {
        type = "default";
        return type;
    }

    OMElement lbElement = templateEl.getFirstChildWithName(new
QName(SynapseConstants.SYNAPSE_NAMESPACE,
        "loadbalance"));

    if (lbElement != null) {
        type = "loadbalance";
        return type;
    }

    OMElement httpElement = templateEl.getFirstChildWithName(new
QName(SynapseConstants.SYNAPSE_NAMESPACE,
        "http"));

    if (httpElement != null) {
        type = "http";
        return type;
    }

    return type;
}

/**
 * Creates an array of { @link org.wso2.carbon.mediation.templates.common.TemplateInfo } instances
 * corresponds to the <code>templateMediators</code> collection
 *

```

```

* @param templateMediators of which the
* {@link org.wso2.carbon.mediation.templates.common.TemplateInfo} array needs to be created
* @return an array of TemplateInfo instances representing the sequences
*/
public static TemplateInfo[] getSortedTemplateInfoArray(
    Collection<TemplateMediator> templateMediators) {

    ArrayList<TemplateInfo> templateInfoList = new ArrayList<TemplateInfo>();
    for (TemplateMediator templateMediator : templateMediators) {
        templateInfoList.add(createTemplateInfo(templateMediator));
    }

    Collections.sort(templateInfoList, new Comparator<TemplateInfo>() {
        public int compare(TemplateInfo info1, TemplateInfo info2) {
            return info1.getName().compareToIgnoreCase(info2.getName());
        }
    });

    return templateInfoList.toArray(new TemplateInfo[templateInfoList.size()]);
}

public static EndpointTemplateInfo[] getSortedTemplateInfoArray(
    Collection<Template> templateMediators) {

    ArrayList<EndpointTemplateInfo> templateInfoList = new ArrayList<EndpointTemplateInfo>();
    for (Template templateMediator : templateMediators) {
        templateInfoList.add(createTemplateInfo(templateMediator));
    }

    Collections.sort(templateInfoList, new Comparator<EndpointTemplateInfo>() {
        public int compare(EndpointTemplateInfo info1, EndpointTemplateInfo info2) {
            return info1.getTemplateName().compareToIgnoreCase(info2.getTemplateName());
        }
    });

    return templateInfoList.toArray(new EndpointTemplateInfo[templateInfoList.size()]);
}

}
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*/
```

```
package org.wso2.carbon.mediation.templates.common;
```

```
public class TemplateInfo {  
  
    private String name;  
    private boolean enableStatistics;  
    private boolean enableTracing;  
    private String description;  
  
    public String getName() {  
        return name;  
    }  
  
    public void setName(String name) {  
        this.name = name;  
    }  
  
    public boolean isEnabledStatistics() {  
        return enableStatistics;  
    }  
  
    public void setEnableStatistics(boolean enableStatistics) {  
        this.enableStatistics = enableStatistics;  
    }  
  
    public boolean isEnabledTracing() {  
        return enableTracing;  
    }  
  
    public void setEnableTracing(boolean enableTracing) {  
        this.enableTracing = enableTracing;  
    }  
  
    public String getDescription() {  
        return description;  
    }  
  
    public void setDescription(String description) {  
        this.description = description;  
    }  
}
```

```

}
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 */
package org.wso2.carbon.mediation.templates.common;

public class TemplateEditorException extends Exception{

    public TemplateEditorException(String msg){
        super(msg);
    }

    public TemplateEditorException(String msg, Throwable e){
        super(msg,e);
    }
}
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 */

```

```

package org.wso2.carbon.mediation.templates.common;

import org.apache.axiom.om.OMElement;

import java.util.ArrayList;

public class EndpointTemplateInfo {

    private String templateName;

    private String description;

    private String endpointType;

    private ArrayList<String> params = new ArrayList<String>();

    public String getTemplateName() {
        return templateName;
    }

    public void setTemplateName(String templateName) {
        this.templateName = templateName;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getEndpointType() {
        return endpointType;
    }

    public void setEndpointType(String endpointType) {
        this.endpointType = endpointType;
    }

    public void addParam(String paramName) {
        if (paramName != null && !"".equals(paramName.trim())) {
            params.add(paramName);
        }
    }

    public String getParamCollectionString() {
        String collectionStr = "";

```

```

int i = 0;
for (String param : params) {
    if (param != null && !"".equals(param.trim())) {
        collectionStr = collectionStr + param + ":";
    }
    i++;
}
return collectionStr;
}
}

```

1.683

org.wso2.carbon.mediation.templates.service

4.2.0

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```

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 */
package org.wso2.carbon.mediation.service.templates.internal;

import org.wso2.carbon.mediation.service.templates.TemplateMediator;
import org.wso2.carbon.mediator.service.AbstractMediatorService;
import org.wso2.carbon.mediator.service.ui.Mediator;

public class TemplateMediatorService extends AbstractMediatorService {
    public String getTagLocalName() {
        return "template";
    }
}

```

```

public String getDisplayName() {
    return "Template";
}

public String getLogicalName() {
    return "TemplateMediator";
}

public String getGroupName() {
    return "uiless";
}

public Mediator getMediator() {
    return new TemplateMediator();
}

public boolean isAddChildEnabled() {
    return false;
}
}
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 * under the License.
 */
package org.wso2.carbon.mediation.service.templates;

import org.apache.axiom.om.OMAttribute;
import org.apache.axiom.om.OMElement;
import org.apache.synapse.config.xml.XMLConfigConstants;
import org.wso2.carbon.mediator.service.builtin.SequenceMediator;
import org.wso2.carbon.mediator.service.ui.Mediator;

import javax.xml.namespace.QName;
import java.util.ArrayList;
import java.util.Collection;

```

```

import java.util.Iterator;
import java.util.List;

public class TemplateMediator extends SequenceMediator {
    private static final QName TEMPLATE_Q
        = new QName(XMLConfigConstants.SYNAPSE_NAMESPACE, "template");
    private static final QName TEMPLATE_BODY_Q
        = new QName(XMLConfigConstants.SYNAPSE_NAMESPACE, "sequence");
    private static final QName PARAMETER_Q = new QName(XMLConfigConstants.SYNAPSE_NAMESPACE,
"parameter");

    private Collection<String> paramNames = new ArrayList<String>() ;

    private String eipPatternName;

    public void setParameters(Collection<String> paramNames) {
        this.paramNames = paramNames;
    }

    public void addParameter(String paramName){
        if (paramName!=null && !"".equals(paramName)) {
            this.paramNames.add(paramName);
        }
    }

    public Collection<String> getParameters() {
        return paramNames;
    }

    public void setName(String name) {
        this.eipPatternName = name;
    }

    public String getName() {
        return eipPatternName;
    }

    public OMElement serialize(OMElement parent) {
        TemplateMediator mediator = this;
        OMElement templateElem = fac.createOMElement("template", synNS);

        if (mediator.getName() != null) {
            templateElem.addAttribute(fac.createOMAttribute(
                "name", nullNS, mediator.getName()));

            if (mediator.getErrorHandler() != null) {
                templateElem.addAttribute(fac.createOMAttribute(
                    "onError", nullNS, mediator.getErrorHandler()));
            }
        }
    }
}

```



```

    }
    serializeParams(templateElem,mediator);
    serializeBody(templateElem, mediator.getList());
    saveTracingState(templateElem, mediator);
}

return templateElem;
}

private void serializeParams(OMEElement templateElem, TemplateMediator mediator) {
    Collection<String> params = mediator.getParameters();
    Iterator<String> paramIterator = params.iterator();
    while (paramIterator.hasNext()){
        String paramName = paramIterator.next();
        if(!"".equals(paramName)){
            OMEElement paramEl = fac.createOMEElement("parameter", synNS);
            paramEl.addAttribute(fac.createOMAttribute("name",nullNS,paramName));
            templateElem.addChild(paramEl);
        }
    }
}

private void serializeBody(OMEElement templateElem, List<Mediator> childMediatorList){
    OMEElement seqEl = fac.createOMEElement("sequence", synNS);
    templateElem.addChild(seqEl);
    serializeChildren(seqEl, childMediatorList);
}

public void build(OMEElement elem) {
    OMEElement templateElem = elem;
    OMAttribute nameAttr = templateElem.getAttribute(ATT_NAME);
    OMAttribute errorHandlerAttr = templateElem.getAttribute(ATT_ONERROR);
    if (nameAttr != null) {
        setName(nameAttr.getAttributeValue());
        if (errorHandlerAttr != null) {
            setErrorHandler(errorHandlerAttr.getAttributeValue());
        }
        processAuditStatus(this, templateElem);
        initParameters(templateElem);
        OMEElement templateBodyElem = templateElem.getFirstChildWithName(TEMPLATE_BODY_Q);
        addChildren(templateBodyElem, this);
    } else {
        String msg = "A EIP template should be a named mediator .";
    }
}

private void initParameters(OMEElement templateElem) {
    Iterator subElements = templateElem.getChildElements();

```

```

Collection<String> paramNames = new ArrayList<String>();
while (subElements.hasNext()) {
    OMElement child = (OMElement) subElements.next();
    if (child.getQName().equals(PARAMETER_Q)) {
        OMAttribute paramNameAttr = child.getAttribute(ATT_NAME);
        if (paramNameAttr != null) {
            paramNames.add(paramNameAttr.getAttributeValue());
        }
        child.detach();
    }
}
this.setParameters(paramNames);
}

}

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 */
package org.wso2.carbon.mediation.service.templates;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.osgi.framework.BundleActivator;
import org.osgi.framework.BundleContext;
import org.wso2.carbon.mediation.service.templates.internal.TemplateMediatorService;
import org.wso2.carbon.mediator.service.MediatorService;

import java.util.Properties;

public class TemplateMediatorActivator implements BundleActivator {

    private static final Log log = LogFactory.getLog(TemplateMediatorActivator.class);

    public void start(BundleContext bundleContext) throws Exception {

```

```

if (log.isDebugEnabled()) {
    log.debug("Starting the template mediator service component ...");
}

//Properties props = new Properties();
bundleContext.registerService(
    MediatorService.class.getName(), new TemplateMediatorService(), null);

if (log.isDebugEnabled()) {
    log.debug("Successfully registered template mediator service");
}

}

public void stop(BundleContext bundleContext) throws Exception {
    if (log.isDebugEnabled()) {
        log.debug("Stopped the template mediator service...");
    }
}
}

```

1.684

org.wso2.carbon.mediation.templates.stub

4.2.0

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1.685

org.wso2.carbon.mediation.templates.ui 4.2.0

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```
<% @ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
<%--
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~ distributed under the License is distributed on an "AS IS" BASIS,
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~ limitations under the License.
--%>
<% @ page import="org.wso2.carbon.sequences.common.to.SequenceInfo" %>
<% @ page import="org.wso2.carbon.mediation.templates.ui.TemplateAdminClientAdapter" %>
<% @ page import="org.wso2.carbon.mediation.templates.ui.TemplateEditorConstants" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="java.util.ResourceBundle" %>
<% @ page import="org.wso2.carbon.mediation.templates.ui.factory.TemplateEditorClientFactory" %>
<% @ page import="org.wso2.carbon.mediation.templates.ui.EndpointTemplateAdminClient" %>
<% @ page import="org.wso2.carbon.mediation.templates.common.EndpointTemplateInfo" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>

<fmt:bundle basename="org.wso2.carbon.mediation.templates.ui.i18n.Resources">
  <carbon:jsi18n
    resourceBundle="org.wso2.carbon.mediation.templates.ui.i18n.JSResources"
    request="<%=request%>" />

<link type="text/css" href="../dialog/js/jqueryui/tabs/ui.all.css" rel="stylesheet" />
<script type="text/javascript" src="../dialog/js/jqueryui/tabs/jquery-1.2.6.min.js"></script>
<script type="text/javascript" src="../dialog/js/jqueryui/tabs/jquery-ui-1.6.custom.min.js"></script>
<script type="text/javascript" src="../dialog/js/jqueryui/tabs/jquery.cookie.js"></script>

<script type="text/javascript">
  function confirmForceDelete(sequenceName, msg) {
    CARBON.showConfirmationDialog('<fmt:message key="sequence.dependency.mgt.warning"/><br/><br/>'
      + msg + '<br/><fmt:message key="force.delete"/>', function() {
      location.href = "../templates/delete_template.jsp?sequenceName=" + sequenceName + "&force=true";
    });
  }
</script>
```



```

<%
//remove session variables if user exited form design sequence of proxy admin
session.removeAttribute("sequence");
//createClient factory for editor
session.setAttribute("editorClientFactory",new TemplateEditorClientFactory());

TemplateAdminClientAdapter templateAdminClient
    = new TemplateAdminClientAdapter(this.getServletConfig(), session);
SequenceInfo[] sequences = null;
SequenceInfo[] dynamicSequences = null;
String pageNumberStr = request.getParameter("pageNumber");
String dynamicPageNumberStr = request.getParameter("dynamicPageNumber");
int pageNumber = 0;
int dynamicPageNumber = 0;
if (pageNumberStr != null) {
    pageNumber = Integer.parseInt(pageNumberStr);
}
if(dynamicPageNumberStr!=null){
    dynamicPageNumber = Integer.parseInt(dynamicPageNumberStr);
}
int numberOfPages = 0;
int numberOfDynamicPages = 0;
try {
    sequences = templateAdminClient.getTemplates(pageNumber,
TemplateEditorConstants.SEQUENCE_PER_PAGE);
    dynamicSequences = templateAdminClient.getDynamicSequences(dynamicPageNumber,
        TemplateEditorConstants.SEQUENCE_PER_PAGE);
    if(sequences == null){
        sequences = new SequenceInfo[0];
    }
    if(dynamicSequences == null){
        dynamicSequences = new SequenceInfo[0];
    }
    int seqCount = templateAdminClient.getSequencesCount();
    int dynamicSequenceCount = templateAdminClient.getDynamicSequenceCount();

    if (seqCount % TemplateEditorConstants.SEQUENCE_PER_PAGE == 0) {
        numberOfPages = seqCount / TemplateEditorConstants.SEQUENCE_PER_PAGE;
    } else {
        numberOfPages = seqCount / TemplateEditorConstants.SEQUENCE_PER_PAGE + 1;
    }

    if (dynamicSequenceCount % TemplateEditorConstants.SEQUENCE_PER_PAGE == 0) {
        numberOfDynamicPages = dynamicSequenceCount / TemplateEditorConstants.SEQUENCE_PER_PAGE;
    } else {
        numberOfDynamicPages = dynamicSequenceCount / TemplateEditorConstants.SEQUENCE_PER_PAGE +
1;

```

```

    }
} catch (Exception e) {
    CarbonUIMessage.sendCarbonUIMessage(e.getMessage(), CarbonUIMessage.ERROR, request, e);
%>
<script type="text/javascript">
    location.href = "../admin/error.jsp";
</script>
<%
    return;
}

ResourceBundle bundle = ResourceBundle.getBundle("org.wso2.carbon.mediation.templates.ui.i18n.Resources",
    request.getLocale());
if("fail".equals(session.getAttribute("dynamic_edit"))){
    %>
    <script type="text/javascript">
        CARBON.showErrorDialog("<%= bundle.getString(
            "unable.to.build.sequence.object.from.the.given.sequence.information") %>");
    </script>
    <%
        session.removeAttribute("dynamic_edit");
    }
String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
session.removeAttribute("mediator.position");

String dependencyMgtError = (String) session.getAttribute("seq.d.mgt.error.msg");
if (dependencyMgtError != null) {
    String seqToDelete = (String) session.getAttribute("seq.d.mgt.error.name");
%>
<script type="text/javascript">
    confirmForceDelete('<%=seqToDelete%>', '<%=dependencyMgtError%>');
</script>
<%
    session.removeAttribute("seq.d.mgt.error.msg");
    session.removeAttribute("seq.d.mgt.error.name");
}

try {
    if (((String) session.getAttribute("hasDuplicateTemplateEndpoint")).equals("true")) {
%>
<script type="text/javascript">
    CARBON.showErrorDialog('<fmt:message key="endpoint.already.exists"/>');
</script>
<%
        session.removeAttribute("hasDuplicateTemplateEndpoint");
    }
} catch (Exception e) {
}

```

%>

```
<script type="text/javascript" src="../../carbon/global-params.js"></script>
```

```
<script type="text/javascript">
```

```
wso2.wsf.Util.initURLs();  
var ENABLE = "enable";  
var DISABLE = "disable";  
var STAT = "statistics";  
var TRACE = "Tracing";
```

```
var frondendURL = wso2.wsf.Util.getServerURL() + "/";
```

```
function addSequence() {  
    document.location.href = "../sequences/design_sequence.jsp?sequenceAction=add&seqEditor=template";  
}
```

```
function addEndpoint() {  
    jQuery.ajax({  
        type: 'POST',  
        url: '../templates/endpoint_template-ajaxprocessor.jsp',  
        data: 'data=null',  
        success: function(msg) {  
            document.location.href =  
            "../endpoints/index.jsp?templateAdd=true&endpointOriginator=template";  
        },  
        error: function(msg) {  
            // CARBON.showErrorDialog('<fmt:message key="template.trace.enable.link"/>' +  
            // '' + templateName);  
        }  
    })  
}
```

```
function disableStat(sequenceName) {  
    $.ajax({  
        type: 'POST',  
        url: '../sequences/stat_tracing-ajaxprocessor.jsp',  
        data: 'sequenceName=' + sequenceName + '&action=disableStat',  
        success: function(msg) {  
            handleCallback(sequenceName, DISABLE, STAT);  
        },  
        error: function(msg) {  
            CARBON.showErrorDialog('<fmt:message key="sequence.stat.disable.error"/>' +  
            '' + sequenceName);  
        }  
    })  
}
```

```

    });
}

function enableStat(sequenceName) {
$.ajax({
    type: 'POST',
    url: './sequences/stat_tracing-ajaxprocessor.jsp',
    data: 'sequenceName=' + sequenceName + '&action=enableStat',
    success: function(msg) {
        handleCallback(sequenceName, ENABLE, STAT);
    },
    error: function(msg) {
        CARBON.showErrorDialog('<fmt:message key="sequence.stat.enable.error"/>' +
            ' ' + sequenceName);
    }
});
}

```

```

function handleCallback(seq, action, type) {
    var element;
    if (action == "enable") {
        if (type == "statistics") {
            element = document.getElementById("disableStat" + seq);
            element.style.display = "";
            element = document.getElementById("enableStat" + seq);
            element.style.display = "none";
        } else {
            element = document.getElementById("disableTracing" + seq);
            element.style.display = "";
            element = document.getElementById("enableTracing" + seq);
            element.style.display = "none";
        }
    } else {
        if (type == "statistics") {
            element = document.getElementById("disableStat" + seq);
            element.style.display = "none";
            element = document.getElementById("enableStat" + seq);
            element.style.display = "";
        } else {
            element = document.getElementById("disableTracing" + seq);
            element.style.display = "none";
            element = document.getElementById("enableTracing" + seq);
            element.style.display = "";
        }
    }
}
}

```

```

function enableTracing(sequenceName) {

```

```

$.ajax({
  type: 'POST',
  url: './sequences/stat_tracing-ajaxprocessor.jsp',
  data: 'sequenceName=' + sequenceName + '&action=enableTracing',
  success: function(msg) {
    handleCallback(sequenceName, ENABLE, TRACE);
  },
  error: function(msg) {
    CARBON.showErrorDialog('<fmt:message key="sequence.trace.enable.link"/>' +
      '' + sequenceName);
  }
});
}

```

```

function disableTracing(sequenceName) {
$.ajax({
  type: 'POST',
  url: './sequences/stat_tracing-ajaxprocessor.jsp',
  data: 'sequenceName=' + sequenceName + '&action=disableTracing',
  success: function(msg) {
    handleCallback(sequenceName, DISABLE, TRACE);
  },
  error: function(msg) {
    CARBON.showErrorDialog('<fmt:message key="sequence.trace.disable.error"/>' +
      '' + sequenceName);
  }
});
}

```

```

function editSequence() {
  document.location.href =
  "../sequences/design_sequence.jsp?sequenceAction=edit&seqEditor=template&sequenceName=" + arguments[0];
}

```

```

function editEndPoint(endPointName, endPointType ,paramCollectionStr) {

jQuery.ajax({
  type: 'POST',
  url: './templates/endpoint_template-ajaxprocessor.jsp',
  data: 'templateName=' + endPointName,
  success: function(msg) {
    editEndPointSuccess(endPointName, endPointType);
  },
  error: function(msg) {
//      CARBON.showErrorDialog('<fmt:message key="template.trace.enable.link"/>' +
//        '' + templateName);
  }
})
}

```

```

}

function editEndpointSuccess(endPointName, endPointType){
    if (endPointType == 'address') {
        document.location.href = './endpoints/addressEndpoint.jsp?endpointName=' + endPointName +
        '&endpointAction=edit&endpointOriginator=template';
    } else if (endPointType == 'wsdl') {
        document.location.href = './endpoints/wsdlEndpoint.jsp?endpointName=' + endPointName +
        '&endpointAction=edit&endpointOriginator=template';
    } else if (endPointType == 'failover') {
        document.location.href = './endpoints/failOverEndpoint.jsp?endpointName=' + endPointName +
        '&endpointAction=edit&endpointOriginator=template';
    } else if (endPointType == 'loadbalance') {
        document.location.href = './endpoints/loadBalanceEndpoint.jsp?endpointName=' + endPointName +
        '&endpointAction=edit&endpointOriginator=template';
    } else if (endPointType == 'default') {
        document.location.href = './endpoints/defaultEndpoint.jsp?endpointName=' + endPointName +
        '&endpointAction=edit&endpointOriginator=template';
    } else if (endPointType == 'http') {
        document.location.href = './endpoints/httpEndpoint.jsp?endpointName=' + endPointName +
        '&endpointAction=edit&endpointOriginator=template';
    }
}

}

function deleteSequence(sequenceName) {
    if (sequenceName == "main" || sequenceName == "fault") {
        CARBON.showWarningDialog('<fmt:message key="sequence.main.fault.cannot.delete"/>');
    } else {
        CARBON.showConfirmationDialog("<fmt:message key="sequence.delete.confirmation"/> " +
sequenceName + "?", function(){
            location.href = './templates/delete_template.jsp?sequenceName=' + sequenceName;
        });
    }
}

function deleteEndpoint(sequenceName) {
    CARBON.showConfirmationDialog("<fmt:message key="endpoint.delete.confirmation"/> " + sequenceName
+ "?", function() {
        location.href = './templates/delete_template.jsp?sequenceName=' + sequenceName +
"&templateType=endpoint";
    });
}

function getResponseValue(responseXML) {
    var returnElementList = responseXML.getElementsByTagName("ns:return");
    // Older browsers might not recognize namespaces (e.g. FF2)
    if (returnElementList.length == 0)

```

```

        returnElementList = responseXML.getElementsByTagName("return");
        var returnElement = returnElementList[0];

        return returnElement.firstChild.nodeValue;
    }
    function editRegistrySequence(key) {
        if (key != null && key != undefined && key != "") {
            location.href = "../sequences/registry_sequence.jsp?action=edit&key=" + key;
        } else {
            CARBON.showErrorDialog("Specify the key of the Sequence to be edited");
        }
    }
}

function editRegistryEndpoint(endPointName, endPointType ,paramCollectionStr) {
    jQuery.ajax({
        type: 'POST',
        url: '../templates/endpoint_template-ajaxprocessor.jsp',
        data: 'templateName=' + endPointName + "&editingType=registry",
        success: function(msg) {
            var parameters = msg.trim().split(";");
            var epType = parameters[0].trim();
            var epName = parameters[1].trim();
            editEndpointSuccess(epName, epType);
        },
        error: function(msg) {
//            CARBON.showErrorDialog('<fmt:message key="template.trace.enable.link"/>' +
//                '' + templateName);
        }
    })
}

function deleteRegistrySequence(sequenceName) {
    if (sequenceName == "main" || sequenceName == "fault") {
        CARBON.showWarningDialog('<fmt:message key="sequence.main.fault.cannot.delete"/>');
    } else {
        CARBON.showConfirmationDialog("<fmt:message key="sequence.delete.confirmation"/> " +
sequenceName + "?", function(){
            location.href = "../templates/delete_template.jsp?type=registry&sequenceName=" + sequenceName;
        });
    }
}

function deleteRegistryEndpoint(sequenceName) {
    CARBON.showConfirmationDialog("<fmt:message key="endpoint.delete.confirmation"/> " + sequenceName
+ "?", function() {
        location.href = "../templates/delete_template.jsp?type=registry&sequenceName=" + sequenceName +
"&templateType=endpoint";
    });
}

```

```

}

function minMaxReg() {
    var minMaxRegBox = $('#minMaxRegBox');
    if (minMaxRegBox.style.display == "none") {
        minMaxRegBox.style.display = "";
    } else {
        minMaxRegBox.style.display = "none";
    }
}

$(function() {
    $("##tabs").tabs();
});

//tab handling logic
var tabIndex = -1;
<%
String tab = request.getParameter("tab");
if(tab!=null && tab.equals("0")){
%>
tabIndex = 0;
<%
} else if (tab!=null && tab.equals("1")) {
%>
tabIndex = 1;
<% }%>
$(document).ready(function() {
    var $tabs = $('#tabs > ul').tabs({ cookie: { expires: 30 } });
    $('a', $tabs).click(function() {
        if ($(this).parent().hasClass('ui-tabs-selected')) {
            $tabs.tabs('load', $('a', $tabs).index(this));
        }
    });
    if (tabIndex == 0) {
        $tabs.tabs('option', 'selected', 0);
    } else if (tabIndex == 1) {
        $tabs.tabs('option', 'selected', 1);
    }
});
</script>

<style type="text/css">
.inlineDiv div {
    float: left;
}
</style>

<carbon:breadcrumb

```



```

label="sequence.menu.text"
resourceBundle="org.wso2.carbon.mediation.templates.ui.i18n.Resources"
topPage="true"
request="<%=request%>" />

<div id="middle">

    <h2>
        <fmt:message key="mediation.templates.header"/>
    </h2>

    <div id="workArea" style="background-color:#F4F4F4;">
    <div style="height:25px;">
        <a class="icon-link" style="background-image: url(../admin/images/add.gif);"
            href="javascript:addSequence()"><fmt:message key="sequence.button.add.text"/></a>
    </div>

    <div style="height:25px;">
        <a class="icon-link" style="background-image: url(../admin/images/add.gif);"
            href="javascript:addEndpoint()"><fmt:message key="endpoint.button.add.text"/></a>
    </div>
    <div id="tabs">
        <ul>
            <li><a href="#tabs-1"><fmt:message key="defined.templates"/></a></li>
            <li><a href="#tabs-2"><fmt:message key="dynamic.templates"/></a></li>
            <li><a href="#tabs-3"><fmt:message key="endpoint.templates"/></a></li>
            <li><a href="#tabs-4"><fmt:message key="dynamic.endpoint.templates"/></a></li>
        </ul>
        <div id="tabs-1">
            <% if ((sequences != null) && (sequences.length > 0)) { %>
            <p><fmt:message key="sequences.defined.text"/></p>
            <br/>
            <carbon:paginator pageNumber="<%=pageNumber%>" numberOfPages="<%=numberOfPages%>"
                page="list_templates.jsp" pageNumberParameterName="pageNumber"
                resourceBundle="org.wso2.carbon.mediation.templates.ui.i18n.Resources"
                prevKey="prev" nextKey="next"
                parameters="<%= "" %>" />
            <br>
            <table class="styledLeft" cellspacing="1" id="sequencesTable">
                <thead>
                    <tr>
                        <th>
                            <fmt:message key="sequence.name"/>
                        </th>
                        <%--<th>
                            <fmt:message key="sequence.description"/>
                        </th--%>
                        <th colspan="4">

```

```

        <fmt:message key="sequence.actions"/>
    </th>
</tr>
</thead>
<tbody>
    <% for (SequenceInfo sequence : sequences) { %>
    <tr>
        <td>
            <%= sequence.getName() %>
        </td>
        <!--<td>
            <%= sequence.getDescription() != null ? sequence.getDescription() : "" %>
        </td-->
        <% if (sequence.isEnableStatistics()) { %>
        <td style="border-right:none;border-left:none;width:200px">
            <div class="inlineDiv">
                <div id="disableStat<%= sequence.getName()%>">
                    <a href="#" onclick="disableStat('<%= sequence.getName() %>')" class="icon-link"
style="background-image:url(..admin/images/static-icon.gif);"><fmt:message
key="sequence.stat.disable.link"/></a>
                </div>
                <div id="enableStat<%= sequence.getName()%>" style="display:none;">
                    <a href="#" onclick="enableStat('<%= sequence.getName() %>')" class="icon-link"
style="background-image:url(..admin/images/static-icon-disabled.gif);"><fmt:message
key="sequence.stat.enable.link"/></a>
                </div>
            </div>
        </td>
        <% } else { %>
        <td style="border-right:none;border-left:none;width:200px">
            <div class="inlineDiv">
                <div id="enableStat<%= sequence.getName()%>">
                    <a href="#" onclick="enableStat('<%= sequence.getName() %>')" class="icon-link"
style="background-image:url(..admin/images/static-icon-disabled.gif);"><fmt:message
key="sequence.stat.enable.link"/></a>
                </div>
                <div id="disableStat<%= sequence.getName()%>" style="display:none">
                    <a href="#" onclick="disableStat('<%= sequence.getName() %>')" class="icon-link"
style="background-image:url(..admin/images/static-icon.gif);"><fmt:message
key="sequence.stat.disable.link"/></a>
                </div>
            </div>
        </td>
        <% } %>
        <% if (sequence.isEnableTracing()) { %>
        <td style="border-right:none;border-left:none;width:200px">
            <div class="inlineDiv">
                <div id="disableTracing<%= sequence.getName()%>">

```

```

                <a href="#" onclick="disableTracing('<%= sequence.getName() %>')" class="icon-link"
style="background-image:url(..admin/images/trace-icon.gif);"><fmt:message
key="sequence.trace.disable.link"/></a>
            </div>
            <div id="enableTracing<%= sequence.getName()%>" style="display:none;">
                <a href="#" onclick="enableTracing('<%= sequence.getName() %>')" class="icon-link"
style="background-image:url(..admin/images/trace-icon-disabled.gif);"><fmt:message
key="sequence.trace.enable.link"/></a>
            </div>
        </div>
        <td>
            <% } else { %>
                <td style="border-right:none;border-left:none;width:200px">
                    <div class="inlineDiv">
                        <div id="enableTracing<%= sequence.getName()%>">
                            <a href="#" onclick="enableTracing('<%= sequence.getName() %>')" class="icon-link"
style="background-image:url(..admin/images/trace-icon-disabled.gif);"><fmt:message
key="sequence.trace.enable.link"/></a>
                        </div>
                        <div id="disableTracing<%= sequence.getName()%>" style="display:none">
                            <a href="#" onclick="disableTracing('<%= sequence.getName() %>')" class="icon-link"
style="background-image:url(..admin/images/trace-icon.gif);"><fmt:message
key="sequence.trace.disable.link"/></a>
                        </div>
                    </div>
                </td>
            <% } %>
                <td style="border-left:none;border-right:none;width:100px">
                    <div class="inlineDiv">
                        <a href="#" onclick="editSequence('<%= sequence.getName() %>')" class="icon-link"
style="background-image:url(..admin/images/edit.gif);"><fmt:message key="sequence.edit.action"/></a>
                    </div>
                </td>
                <td style="border-left:none;width:100px">
                    <div class="inlineDiv">
                        <a href="#" onclick="deleteSequence('<%= sequence.getName() %>')" class="icon-link"
style="background-image:url(..admin/images/delete.gif);"><fmt:message key="sequence.delete.action"/></a>
                    </div>
                </td>
            </tr>
        <% } %>
    </tbody>
</table>

<script type="text/javascript">
    alternateTableRows('sequencesTable', 'tableEvenRow', 'tableOddRow');
</script>
<p>&nbsp;</p>

```

```

<carbon:paginator pageNumber="<%=pageNumber%>" numberOfPages="<%=numberOfPages%>"
    page="list_templates.jsp" pageNumberParameterName="pageNumber"
    resourceBundle="org.wso2.carbon.mediation.templates.ui.i18n.Resources"
    prevKey="prev" nextKey="next"
    parameters="<%= "" %>"/>
<% } else { %>
    <p><fmt:message key="no.templates.static.text"/></p>
<% } %>
</div>
<div id="tabs-2">
    <% if ((dynamicSequences != null) && (dynamicSequences.length > 0)) { %>
    <p><fmt:message key="sequences.dynamic.text"/></p>
    <br/>
<carbon:paginator pageNumber="<%=dynamicPageNumber%>"
numberOfPages="<%=numberOfDynamicPages%>"
    page="list_templates.jsp" pageNumberParameterName="dynamicPageNumber"
    resourceBundle="org.wso2.carbon.sequences.ui.i18n.Resources"
    prevKey="prev" nextKey="next"
    parameters="<%= "" %>" />
<br/>
<table class="styledLeft" cellspacing="1" id="dynamicSequencesTable">
    <thead>
        <tr>
            <th>
                <fmt:message key="sequence.name"/>
            </th>
            <th class="registryWriteOperation" style="width:200px" colspan="2">
                <fmt:message key="sequence.actions"/>
            </th>
        </tr>
    </thead>
    <tbody>
    <% for (SequenceInfo sequence : dynamicSequences) { %>
    <tr>
        <td style="width:200px">
            <%= sequence.getName() %>
        </td>
        <td class="registryWriteOperation" style="border-right:none;width:100px">
            <div class="inlineDiv">
                <a href="#" onclick="editRegistrySequence('<%= sequence.getName() %>')" class="icon-link"
                    style="background-image:url(..admin/images/edit.gif);"><fmt:message
                    key="sequence.edit.action"/></a>
            </div>
        </td>
        <td class="registryWriteOperation" style="border-left:none;width:100px">
            <div class="inlineDiv">
                <a href="#" onclick="deleteRegistrySequence('<%= sequence.getName() %>')" class="icon-link"
                    style="background-image:url(..admin/images/delete.gif);"><fmt:message

```

```

                key="sequence.delete.action"/></a>
            </div>
        </td>
    </tr>
<% } %>
</tbody>
</table>
<br>
<carbon:paginator pageNumber="<%=dynamicPageNumber%>"
numberOfPages="<%=numberOfDynamicPages%>"
    page="list_templates.jsp" pageNumberParameterName="dynamicPageNumber"
    resourceBundle="org.wso2.carbon.sequences.ui.i18n.Resources"
    prevKey="prev" nextKey="next"
    parameters="<%= "" %>" />
<script type="text/javascript">
    alternateTableRows('dynamicSequencesTable', 'tableEvenRow', 'tableOddRow');
</script>

<% } else { %>
    <p><fmt:message key="no.templates.dynamic.text"/></p>
<% } %>
</div>

<%
    EndpointTemplateAdminClient endpointClient
        = new EndpointTemplateAdminClient(this.getServletConfig(), session);
    EndpointTemplateInfo[] endpointTemplates = null;
    EndpointTemplateInfo[] dynamicEndpointTemplates = null;
    String endpointPageNumberStr = request.getParameter("pageNumberForEndpoint");
    String dynamicEndpointPageNumberStr = request.getParameter("dynamicPageNumberForEndpoint");
    int endpointPageNumber = 0;
    int dynamicEndpointPageNumber = 0;
    if (endpointPageNumberStr != null) {
        endpointPageNumber = Integer.parseInt(endpointPageNumberStr);
    }
    if (dynamicEndpointPageNumberStr != null) {
        dynamicEndpointPageNumber = Integer.parseInt(dynamicEndpointPageNumberStr);
    }
    int numberOfPagesEndpoint = 0;
    int numberOfDynamicPagesEndpoint = 0;

    endpointTemplates = endpointClient.getEndpointTemplates(pageNumber,
TemplateEditorConstants.SEQUENCE_PER_PAGE);
    dynamicEndpointTemplates = endpointClient.getDynamicEndpointTemplates(dynamicPageNumber,
        TemplateEditorConstants.SEQUENCE_PER_PAGE);
    if(endpointTemplates == null){
        endpointTemplates = new EndpointTemplateInfo[0];

```

```

    }
    if(dynamicEndpointTemplates == null){
        dynamicEndpointTemplates = new EndpointTemplateInfo[0];
    }
    int epTemplateCount = endpointClient.getEndpointTemplatesCount();
    int dynamicTemplateCount = endpointClient.getDynamicEndpointTemplatesCount();

    if (epTemplateCount % TemplateEditorConstants.SEQUENCE_PER_PAGE == 0) {
        numberOfPagesEndpoint = epTemplateCount / TemplateEditorConstants.SEQUENCE_PER_PAGE;
    } else {
        numberOfPagesEndpoint = epTemplateCount / TemplateEditorConstants.SEQUENCE_PER_PAGE + 1;
    }

    if (dynamicTemplateCount % TemplateEditorConstants.SEQUENCE_PER_PAGE == 0) {
        numberOfDynamicPagesEndpoint = dynamicTemplateCount /
TemplateEditorConstants.SEQUENCE_PER_PAGE;
    } else {
        numberOfDynamicPagesEndpoint = dynamicTemplateCount /
TemplateEditorConstants.SEQUENCE_PER_PAGE + 1;
    }
    %>

<div id="tabs-3">
    <% if ((endpointTemplates != null) && (endpointTemplates.length > 0)) { %>
    <p><fmt:message key="endpoint.defined.text"/></p>
    <br/>
    <carbon:paginator pageNumber="<%=endpointPageNumber%>"
numberOfPages="<%=numberOfPagesEndpoint%>"
        page="list_templates.jsp" pageNumberParameterName="endpointPageNumber"
        resourceBundle="org.wso2.carbon.mediation.templates.ui.i18n.Resources"
        prevKey="prev" nextKey="next"
        parameters="<%= "" %>"/>
    <br>
    <table class="styledLeft" cellspacing="1" id="endpointsTable">
        <thead>
            <tr>
                <th>
                    <fmt:message key="endpoint.name"/>
                </th>
                <!--<th>
                    <fmt:message key="endpoint.description"/>
                </th-->
                <th colspan="4">
                    <fmt:message key="endpoint.actions"/>
                </th>
            </tr>
        </thead>
        <tbody>

```

```

<% for (EndpointTemplateInfo endpoint : endpointTemplates) { %>
<tr>
  <td>
    <%= endpoint.getTemplateName() %>
  </td>
  <!--td>
    <%= endpoint.getDescription() != null ? endpoint.getDescription() : "" %>
  </td--%>

  <td style="border-left:none;border-right:none;width:100px">
    <div class="inlineDiv">
      <a href="#" onclick="editEndpoint('<%= endpoint.getTemplateName() %>','<%=
endpoint.getEndpointType() %>','<%= endpoint.getParamCollectionString() %>')"
      class="icon-link"
      style="background-image:url(..admin/images/edit.gif);"><fmt:message
      key="endpoint.edit.action"/></a>
    </div>
  </td>
  <td style="border-left:none;width:100px">
    <div class="inlineDiv">
      <a href="#" onclick="deleteEndpoint('<%= endpoint.getTemplateName() %>','<%=
endpoint.getEndpointType() %>')"
      class="icon-link"
      style="background-image:url(..admin/images/delete.gif);"><fmt:message
      key="endpoint.delete.action"/></a>
    </div>
  </td>
</tr>
<% } %>
</tbody>
</table>

<script type="text/javascript">
  alternateTableRows('endpointsTable', 'tableEvenRow', 'tableOddRow');
</script>
<p>&nbsp;</p>
<carbon:paginator pageNumber="<%=endpointPageNumber%>"
numberOfPages="<%=numberOfPagesEndpoint%>"
  page="list_templates.jsp" pageNumberParameterName="endpointPageNumber"
  resourceBundle="org.wso2.carbon.mediation.templates.ui.i18n.Resources"
  prevKey="prev" nextKey="next"
  parameters="<%= "" %>"/>
<% } else { %>
  <p><fmt:message key="no.templates.static.text"/></p>
<% } %>
</div>

<div id="tabs-4">

```

```

<% if ((dynamicEndpointTemplates != null) && (dynamicEndpointTemplates.length > 0)) { %>
<p><fmt:message key="endpoints.dynamic.text"/></p>
<br/>
<carbon:paginator pageNumber="<%=dynamicEndpointPageNumber%>"
numberOfPages="<%=numberOfDynamicPagesEndpoint%>"
    page="list_templates.jsp" pageNumberParameterName="dynamicEndpointPageNumber"
    resourceBundle="org.wso2.carbon.mediation.templates.ui.i18n.Resources"
    prevKey="prev" nextKey="next"
    parameters="<%= "" %>"/>
<br>
<table class="styledLeft" cellspacing="1" id="dynamicEndpointsTable">
  <thead>
    <tr>
      <th>
        <fmt:message key="endpoint.name"/>
      </th>
      <th>
        <fmt:message key="endpoint.description"/>
      </th>
      <th class="registryWriteOperation" colspan="4">
        <fmt:message key="endpoint.actions"/>
      </th>
    </tr>
  </thead>
  <tbody>
    <% for (EndpointTemplateInfo endpoint : dynamicEndpointTemplates) { %>
    <tr>
      <td>
        <%= endpoint.getTemplateName() %>
      </td>
      <td>
        <%= endpoint.getDescription() != null ? endpoint.getDescription() : "" %>
      </td>
      <td class="registryWriteOperation" style="border-left:none;border-right:none;width:100px">
        <div class="inlineDiv">
          <a href="#" onclick="editRegistryEndpoint('<%= endpoint.getTemplateName() %>','<%=
endpoint.getEndpointType() %>','<%= endpoint.getParamColelctionString() %>')"
            class="icon-link"
            style="background-image:url(..admin/images/edit.gif);"><fmt:message
              key="endpoint.edit.action"/></a>
        </div>
      </td>
      <td class="registryWriteOperation" style="border-left:none;width:100px">
        <div class="inlineDiv">
          <a href="#" onclick="deleteRegistryEndpoint('<%= endpoint.getTemplateName() %>','<%=
endpoint.getEndpointType() %>')"
            class="icon-link"

```



```

                style="background-image:url(../admin/images/delete.gif);"><fmt:message
                key="endpoint.delete.action"/></a>
            </div>
        </td>
    </tr>
<% } %>
</tbody>
</table>

<script type="text/javascript">
    alternateTableRows('dynamicEndpointsTable', 'tableEvenRow', 'tableOddRow');
</script>
<p>&nbsp;</p>
<carbon:paginator pageNumber="<%=dynamicEndpointPageNumber%>"
numberOfPages="<%=numberOfDynamicPagesEndpoint%>"
    page="list_templates.jsp" pageNumberParameterName="dynamicEndpointPageNumber"
    resourceBundle="org.wso2.carbon.mediation.templates.ui.i18n.Resources"
    prevKey="prev" nextKey="next"
    parameters="<%= "" %>"/>
<% } else { %>
    <p><fmt:message key="no.templates.dynamic.text"/></p>
<% } %>
</div>

</div>
</div>
</div>
</fmt:bundle>
<% @ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1" %>
<%--
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~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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~ limitations under the License.
--%>

<% @ page import="org.wso2.carbon.mediation.service.templates.TemplateMediator" %>
<% @ page import="java.util.ArrayList" %>

```

```

<%

//System.out.println("/tempaltes param processor.....");
if (session.getAttribute("editingSequence") instanceof TemplateMediator) {
    //System.out.println("including param .....");

    TemplateMediator template = (TemplateMediator) session.getAttribute("editingSequence");
    String paramCount = request.getParameter("paramCount");
    String paramAction = request.getParameter("paramAction");
    //System.out.println("param count ....." + paramCount + " param action ....." + paramAction);

    if (paramAction == null || (paramAction != null && "add".equals(paramAction))) {
        int count = Integer.parseInt(paramCount);
        ArrayList paramList = new ArrayList();
        for (int i = 0; i < count; i++) {
            String paramName = request.getParameter("param" + i);
            if (paramName != null && !"".equals(paramName.trim())) {
                if (!(paramList.contains(paramName.toString())))
                {
                    paramList.add(paramName);
                }

            }
            //System.out.println("param name ....." + paramName);
        }
        template.setParameters(paramList);
    }
}

%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1" %>
<%--
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~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
~ See the License for the specific language governing permissions and
~ limitations under the License.
--%>

```

```

<% @ page import="org.apache.synapse.endpoints.Template" %>
<% @ page import="org.wso2.carbon.mediation.templates.ui.EndpointTemplateAdminClient" %>

<%

EndpointTemplateAdminClient endpointClient
    = new EndpointTemplateAdminClient(this.getServletConfig(), session);

String[] allEndpointTemplates = endpointClient.getAllTemplateNames();%>

    <option value="default">Select From Templates</option>
    <%
        for (String templateName : allEndpointTemplates) {%>

        <option value="<%=templateName%>"><%=templateName%>

    </option>

<% }%>
/*
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

function addTemplateParameter() {

    /*
    if (!isValidProperties(nameemptymsg, valueemptymsg)) {
        return false;
    }
    */

    var propertyCount = document.getElementById("templatePropertyCount");
    var i = propertyCount.value;
    var currentCount = parseInt(i);

    // handleParamAdd('template', currentCount);
    currentCount = currentCount + 1;

```

```

propertyCount.value = currentCount;

var propertytable = document.getElementById("templatePropertyTable");
propertytable.style.display = "";
var propertytbody = document.getElementById("templatePropertyBody");

var propertyRaw = document.createElement("tr");
propertyRaw.setAttribute("id", "templatePropertyRaw" + i);

var nameTD = document.createElement("td");
nameTD.innerHTML = "<input type='text' name='templatePropertyName" + i + "' id='templatePropertyName" + i
+ "' +
    "class='esb-edit small_textbox' />";

var deleteTD = document.createElement("td");
deleteTD.innerHTML = "<a href='#' class='delete-icon-link' onclick='deleteTemplateProperty(" + i + ")'>" +
seqEdit18n["template.parameter.delete"] + "</a>";
// deleteTD.innerHTML = "<a href='#' class='delete-icon-link' onclick='deleteproperty(" + i + ");return false;'>" +
logi18n["mediator.log.action.delete"] + "</a>";

propertyRaw.appendChild(nameTD);
propertyRaw.appendChild(deleteTD);

propertytbody.appendChild(propertyRaw);
return true;
}

function deleteProperty(i) {
var propRow = document.getElementById("templatePropertyRaw" + i);
var propName = document.getElementById("templatePropertyName" + i);
if (propRow != undefined && propRow != null) {
var parentTBody = propRow.parentNode;
if (parentTBody != undefined && parentTBody != null) {
parentTBody.removeChild(propRow);
if (!isContainRaw(parentTBody)) {
var propertyTable = document.getElementById("templatePropertyTable");
propertyTable.style.display = "none";
}
}
}
}

function isContainRaw(tbody) {
if (tbody.childNodes == null || tbody.childNodes.length == 0) {
return false;
} else {

```

```

for (var i = 0; i < tbody.childNodes.length; i++) {
    var child = tbody.childNodes[i];
    if (child != undefined && child != null) {
        if (child.nodeName == "tr" || child.nodeName == "TR") {
            return true;
        }
    }
}
return false;
}

function handleParamAdd(templateName, count) {
    var propertyReqStr = "";
    i = 0;
    j = 0;
    for (i = 0; i < count; i++) {
        var paramElem = document.getElementById("templatePropertyName" + i);
        if (paramElem != null) {
            var paramName = paramElem.value;
            if (paramName != null && paramName != "") {
                propertyReqStr = propertyReqStr + "&param" + j + "=" + paramName;
                j++;
            }
        }
    }
    jQuery.ajax({
        type: 'POST',
        url: '../templates/process_template_params-ajaxprocessor.jsp',
        data: 'paramCount=' + (j + 1) + propertyReqStr,
        success: function(msg) {
            handleSuccess(msg);
        },
        error: function(msg) {
            CARBON.showErrorDialog('<fmt:message key="template.trace.enable.link"/>' +
            '' + templateName);
        },
        async: false
    });
}

function getParamCount() {
    var propertyCount = document.getElementById("templatePropertyCount");
    var i = propertyCount.value;
    return parseInt(i);
}

```

```

function handleSuccess(msg) {

}
<% @ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1" %>
<!--
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~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
~ See the License for the specific language governing permissions and
~ limitations under the License.
--%>

<% @ page import="org.apache.synapse.endpoints.Template" %>
<% @ page import="org.wso2.carbon.mediation.templates.ui.EndpointTemplateAdminClient" %>
<% @ page import="org.wso2.carbon.mediation.templates.common.factory.TemplateInfoFactory" %>

<%

EndpointTemplateAdminClient endpointClient
    = new EndpointTemplateAdminClient(this.getServletConfig(), session);
String templateName = request.getParameter("templateName");
String type = request.getParameter("edittingType");
Template templateObj = null;

//removr any specific session vars
session.removeAttribute("templateEditingMode");
session.removeAttribute("templateRegKey");

if (templateName == null) {
    templateObj = new Template();
    templateObj.setName("");
    session.setAttribute("endpointTemplate", templateObj);
} else if (type == null){
    templateObj = endpointClient.getTempalate(templateName);
    session.setAttribute("endpointTemplate", templateObj);
} else{
    templateObj = endpointClient.getTempalate(templateName);
    session.setAttribute("endpointTemplate", templateObj);
    session.setAttribute("templateEditingMode", "registry");
}

```

```

        session.setAttribute("templateRegKey", templateName);
        String endpointType = TemplateInfoFactory.getEndpointTypeFromTemplate(templateObj.getElement());
        %>
<%=endpointType%><%=templateName%>
<%
    } /*else if (templateName == null) {
        templateObj = new Template();
        templateObj.setName("");
        session.setAttribute("endpointTemplate", templateObj);
    }*/

%>
<% @ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
<%--
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--%>

<% @ page import="org.wso2.carbon.sequences.common.to.ConfigurationObject" %>
<% @ page import="org.wso2.carbon.sequences.ui.client.SequenceAdminClient" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage" %>
<% @ page import="java.util.ResourceBundle" %>
<% @ page import="org.wso2.carbon.mediation.templates.ui.TemplateAdminClientAdapter" %>
<% @ page import="org.wso2.carbon.mediation.templates.ui.EndpointTemplateAdminClient" %>

<%
    String templateName = request.getParameter("sequenceName");
    String locationType = request.getParameter("type");
    String templateType = request.getParameter("templateType");

    if (templateType == null) {
        TemplateAdminClientAdapter templateAdminClient
            = new TemplateAdminClientAdapter(this.getServletConfig(), session);
        if (templateName != null && !"".equals(templateName) && locationType == null) {
            doForceDelete(templateAdminClient, templateName, request);
        } else {

```

```

        templateAdminClient.deleteDynamicTemplate(templateName);
        // TODO: error handling
    }
} else {
    EndpointTemplateAdminClient endpointAdminClient
        = new EndpointTemplateAdminClient(this.getServletConfig(), session);
    if (templateName != null && !"".equals(templateName) && locationType == null) {
        doForceDelete(endpointAdminClient, templateName, request);
    } else {
        endpointAdminClient.deleteDynamicTemplate(templateName);
        // TODO: error handling
    }
}
}
%>

<script type="text/javascript">
    document.location.href = "list_templates.jsp";
</script>

<%!
private void doForceDelete(TemplateAdminClientAdapter adminClient, String templateName,
    HttpServletRequest request) {
    try {
        adminClient.deleteTemplate(templateName);
    } catch (Exception e) {
        String msg = "Could not delete template: " + e.getMessage();
        CarbonUIMessage.sendCarbonUIMessage(msg, CarbonUIMessage.ERROR, request);
    }
}

private void doForceDelete(EndpointTemplateAdminClient adminClient, String templateName,
    HttpServletRequest request) {
    try {
        adminClient.deleteTemplate(templateName);
    } catch (Exception e) {
        String msg = "Could not delete template: " + e.getMessage();
        CarbonUIMessage.sendCarbonUIMessage(msg, CarbonUIMessage.ERROR, request);
    }
}
%>
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```



```

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*/
package org.wso2.carbon.mediation.templates.ui.factory;

import org.apache.axis2.AxisFault;
import org.wso2.carbon.mediation.service.templates.TemplateMediator;
import org.wso2.carbon.mediation.templates.ui.TemplateAdminClientAdapter;
import org.wso2.carbon.mediator.service.ui.Mediator;
import org.wso2.carbon.sequences.ui.client.EditorUIClient;
import org.wso2.carbon.sequences.ui.factory.EditorUIClientFactory;

import javax.servlet.ServletConfig;
import javax.servlet.http.HttpSession;
import java.util.HashMap;
import java.util.Map;

public class TemplateEditorClientFactory extends EditorUIClientFactory{
    private static Map<String, String> meta = new HashMap<String, String>();

    static{
        meta.put("editorMode","template");
        meta.put("forwardPage","../templates/list_templates.jsp");
        meta.put("sequence.edit.text","template.edit.text");
        meta.put("sequence.design.text","template.design.text");
        meta.put("sequence.design.view.text","template.design.view.text");
        meta.put("sequence.name","template.name");
        meta.put("sequence.root.text","template.root.text");
        meta.put("sequence.button.save.text","template.button.save.text");
        meta.put("sequence.button.saveas.text","template.button.saveas.text");
        meta.put("sequence.design.header","template.design.header");
        meta.put("sequence.edit.header","template.edit.header");
    }
    @Override
    public EditorUIClient createClient(ServletConfig servletConfig, HttpSession httpSession) {
        try {
            return new TemplateAdminClientAdapter(servletConfig, httpSession);
        } catch (AxisFault axisFault) {
            return null;
        }
    }
}

```

```

@Override
public Mediator createEditingMediator() {
    return new TemplateMediator();
}

@Override
public Map<String, String> getUIMetaInfo() {
    return meta;
}
}
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 */

package org.wso2.carbon.mediation.templates.ui;

/**
 * Holds the constants for the <em>sequence-editor</em> component user interface
 */
@SuppressWarnings({"UnusedDeclaration"})
public class TemplateEditorConstants {

    public static final String REQ_PARAM_ACTION = "action";
    public static final String ACTION_PARAM_VALUE_EDIT = "edit";
    public static final String ACTION_PARAM_VALUE_ADD = "add";
    public static final String ACTION_PARAM_VALUE_ANONIFY = "anonify";

    public static final String ADD_CHILD_TYPE = "child";
    public static final String ADD_SYBLING_TYPE = "sibling";

    public static final String STATISTICS_TYPE = "statistics";
    public static final String TRACING_TYPE = "tracing";

    public static final String ENABLE_ACTION = "enable";
    public static final String DISABLE_ACTION = "disable";

```

```

//pagination, item count per page
public static final int SEQUENCE_PER_PAGE = 10;
}
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 * specific language governing permissions and limitations
 * under the License.
 */
package org.wso2.carbon.mediation.templates.ui;

import org.apache.axiom.om.OMElement;
import org.apache.axis2.AxisFault;
import org.apache.axis2.client.Options;
import org.apache.axis2.client.ServiceClient;
import org.apache.axis2.context.ConfigurationContext;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.synapse.config.xml.endpoints.TemplateFactory;
import org.apache.synapse.endpoints.Template;
import org.wso2.carbon.CarbonConstants;
import org.wso2.carbon.mediation.templates.common.EndpointTemplateInfo;
import org.wso2.carbon.mediation.templates.common.TemplateEditorException;
import org.wso2.carbon.mediation.templates.endpoint.stub.types.EndpointTemplateAdminServiceStub;
import org.wso2.carbon.ui.CarbonUIUtil;
import org.wso2.carbon.utils.ServerConstants;

import javax.servlet.ServletConfig;
import javax.servlet.http.HttpSession;
import java.rmi.RemoteException;
import java.util.ArrayList;
import java.util.List;
import java.util.Properties;

public class EndpointTemplateAdminClient {

```

```

private static final Log log = LogFactory.getLog(EndpointTemplateAdminClient.class);
private EndpointTemplateAdminServiceStub endpointTemplateAdminStub;

public EndpointTemplateAdminClient(ServletConfig config, HttpSession session) throws AxisFault {
    String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
    ConfigurationContext configContext = (ConfigurationContext)
        config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
    String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
    String serviceURL = backendServerURL + "EndpointTemplateAdminService";
    endpointTemplateAdminStub = new EndpointTemplateAdminServiceStub(configContext, serviceURL);
    ServiceClient client = endpointTemplateAdminStub._getServiceClient();
    Options option = client.getOptions();
    option.setManageSession(true);
    option.setProperty(org.apache.axis2.transport.http.HTTPConstants.COOKIE_STRING, cookie);
}

public String[] getAllTemplateNames() throws TemplateEditorException {
    List<String> templateNames = new ArrayList<String>();

    EndpointTemplateInfo[] definedTempalates = getEndpointTemplates(0, getEndpointTemplatesCount());
    if (definedTempalates != null) {
        for (EndpointTemplateInfo definedTempalate : definedTempalates) {
            if (definedTempalate.getTemplateName() != null) {
                templateNames.add(definedTempalate.getTemplateName());
            }
        }
    }

    EndpointTemplateInfo[] dynamicTempalates = getDynamicEndpointTemplates(0,
getDynamicEndpointTemplatesCount());
    if (dynamicTempalates != null) {
        for (EndpointTemplateInfo dynTempalate : dynamicTempalates) {
            if (dynTempalate.getTemplateName() != null) {
                templateNames.add(dynTempalate.getTemplateName());
            }
        }
    }
    return templateNames.toArray(new String[0]);
}

public int getEndpointTemplatesCount() throws TemplateEditorException {
    try {
        return endpointTemplateAdminStub.getEndpointTemplatesCount();
    } catch (Exception e) {
        handleException("Couldn't retrieve the endpoint template count", e);
    }
}

```

```

        return 0;
//    return TemplateTestUtil.getEndpointTemplatesCount();
    }

    public int getDynamicEndpointTemplatesCount() throws TemplateEditorException {
        try {
            return endpointTemplateAdminStub.getDynamicEndpointTemplatesCount();
        } catch (Exception e) {
            handleException("Couldn't retrieve the dynamic endpoint template count", e);
        }
        return 0;
//    return TemplateTestUtil.getDynamicEndpointTemplatesCount();
    }

    public EndpointTemplateInfo[] getEndpointTemplates(int pageNumber, int endpointTemplatesPerPage) throws
    TemplateEditorException {
        List<EndpointTemplateInfo> templates = new ArrayList<EndpointTemplateInfo>();
        try {
            org.wso2.carbon.mediation.templates.endpoint.stub.types.common.EndpointTemplateInfo[] temp =
                endpointTemplateAdminStub.getEndpointTemplates(pageNumber, endpointTemplatesPerPage);
            if (temp == null || temp.length == 0 || temp[0] == null) {
                return null;
            }

            for (org.wso2.carbon.mediation.templates.endpoint.stub.types.common.EndpointTemplateInfo info : temp) {
                EndpointTemplateInfo templInfo = new EndpointTemplateInfo();
                templInfo.setTemplateName(info.getTemplateName());
                templInfo.setDescription(info.getDescription());
                templInfo.setEndpointType(info.getEndpointType());
                templates.add(templInfo);
            }
        } catch (Exception e) {
            handleException("Couldn't retrieve the information of the endpoint templates", e);
        }

        if (templates.size() > 0) {
            return templates.toArray(new EndpointTemplateInfo[templates.size()]);
        }
        return null;
//    return TemplateTestUtil.getEndpointTemplates(pageNumber, endpointTemplatesPerPage);
    }

    public EndpointTemplateInfo[] getDynamicEndpointTemplates(int pageNumber, int endpointTemplatesPerPage)
    throws TemplateEditorException {
        List<EndpointTemplateInfo> templates = new ArrayList<EndpointTemplateInfo>();
        try {

```

```

        org.wso2.carbon.mediation.templates.endpoint.stub.types.common.EndpointTemplateInfo[] temp =
            endpointTemplateAdminStub.getDynamicEndpointTemplates(pageNumber,
endpointTemplatesPerPage);
        if (temp == null || temp.length == 0 || temp[0] == null) {
            return null;
        }

        for (org.wso2.carbon.mediation.templates.endpoint.stub.types.common.EndpointTemplateInfo info : temp) {
            EndpointTemplateInfo templInfo = new EndpointTemplateInfo();
            templInfo.setTemplateName(info.getTemplateName());
            templInfo.setDescription(info.getDescription());
            templInfo.setEndpointType(info.getEndpointType());
            templates.add(templInfo);
        }
    } catch (Exception e) {
        handleException("Couldn't retrieve the information of the endpoint templates", e);
    }

    if (templates.size() > 0) {
        return templates.toArray(new EndpointTemplateInfo[templates.size()]);
    }
    return null;

//    return TemplateTestUtil.getDynamicEndpointTemplates(pageNumber, endpointTemplatesPerPage);
}

public Template getTempalate(String templateName) throws RemoteException, TemplateEditorException {
    OMElement element = null;
    Template template = null;
    try {
        element = endpointTemplateAdminStub.getTemplate(templateName).getFirstElement();
        template = new TemplateFactory().createEndpointTemplate(element, new Properties());
    } catch (Exception e) {
        handleException("Couldn't retrieve the endpoint template element with name "
            + templateName + "", e);
    }
    return template;

//    return TemplateTestUtil.getTempalate(templateName);
}

public void saveTemplate(String templateConfig) throws TemplateEditorException {
    try {
        endpointTemplateAdminStub.saveEndpointTemplate(templateConfig);
    } catch (Exception e) {
        handleException("Error in saving the template with the configuration "
            ,e);
    }
}

```

```

    }
}

public void saveDynamicTemplate(String key,String templateConfig) throws TemplateEditorException {
    try {
        endpointTemplateAdminStub.saveDynamicEndpointTemplate(key, templateConfig);
    } catch (Exception e) {
        handleException("Error in saving the template with the configuration "
            ,e);
    }
}

```

```

public void addTemplate(String templateConfig) throws TemplateEditorException {
    try {
        endpointTemplateAdminStub.addEndpointTemplate(templateConfig);
    } catch (Exception e) {
        handleException("Error in adding the template with the configuration "
            ,e);
    }
}

```

```

public void addDynamicTemplate(String key,String templateConfig) throws TemplateEditorException {
    try {
        endpointTemplateAdminStub.addDynamicEndpointTemplate(key, templateConfig);
    } catch (Exception e) {
        handleException("Error in adding the template with the configuration "
            ,e);
    }
}

```

```

private void handleException(String message, Throwable e) throws TemplateEditorException {
    log.error(message, e);
    throw new TemplateEditorException(message, e);
}

```

```

public void deleteTemplate(String templateName) throws TemplateEditorException {
    try {
        endpointTemplateAdminStub.deleteEndpointTemplate(templateName);
    } catch (Exception e) {
        handleException("Couldn't delete the endpoint template " + templateName + "", e);
    }
}

```

```

public void deleteDynamicTemplate(String templateName) throws TemplateEditorException {
    try {
        endpointTemplateAdminStub.deleteDynamicEndpointTemplate(templateName);
    } catch (Exception e) {
        handleException("Couldn't delete the endpoint template " + templateName + "", e);
    }
}

```

```

    }
}

public boolean hasDuplicateTemplateEndpoint(String templateElementConfig) throws TemplateEditorException {
    try {
        return endpointTemplateAdminStub.hasDuplicateTemplateEndpoint(templateElementConfig);
    } catch (Exception e) {
        handleException("Couldn't Check the endpoint template : ", e);
    }
    return false;
}

}

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 * under the License.
 */
package org.wso2.carbon.mediation.templates.ui;

import org.apache.synapse.endpoints.Template;
import org.wso2.carbon.mediation.templates.common.EndpointTemplateInfo;

public class TemplateTestUtil {
    private static int STATIC_ENDPOINT_TEMPLATES = 5;
    private static int DYNAMIC_ENDPOINT_TEMPLATES = 1;

    public static EndpointTemplateInfo[] getEndpointTemplates(int pageNumber, int endpointTemplatesPerPage) {
        EndpointTemplateInfo[] templates = new EndpointTemplateInfo[STATIC_ENDPOINT_TEMPLATES];

        EndpointTemplateInfo temp1 = new EndpointTemplateInfo();
        temp1.setTemplateName("endp_template_address");
        temp1.setEndpointType("address");
    }
}

```



```

EndpointTemplateInfo templ2 = new EndpointTemplateInfo();
templ2.setTemplateName("endp_template_wsdl");
templ2.setEndpointType("wsdl");

EndpointTemplateInfo templ3 = new EndpointTemplateInfo();
templ3.setTemplateName("endp_template_default");
templ3.setEndpointType("default");

EndpointTemplateInfo templ4 = new EndpointTemplateInfo();
templ4.setTemplateName("endp_template_loadbalance");
templ4.setEndpointType("loadbalance");

EndpointTemplateInfo templ5 = new EndpointTemplateInfo();
templ5.setTemplateName("endp_template_failover");
templ5.setEndpointType("failover");

templates[0] = templ1;
templates[1] = templ2;
templates[2] = templ3;
templates[3] = templ4;
templates[4] = templ5;
//    return new TemplateInfo[0];
return templates;
}

public static EndpointTemplateInfo[] getDynamicEndpointTemplates(int pageNumber, int
endpointTemplatesPerPage) {
    EndpointTemplateInfo[] templates = new EndpointTemplateInfo[DYNAMIC_ENDPOITNT_TEMPLATES];
    EndpointTemplateInfo templ1 = new EndpointTemplateInfo();
    templ1.setTemplateName("dynamic_template1");
    templates[0] = templ1;
//    return new TemplateInfo[0];
return templates;
}

public static int getEndpointTemplatesCount() {
    return STATIC_ENDPOINT_TEMPLATES;
}

public static int getDynamicEndpointTemplatesCount() {
    return DYNAMIC_ENDPOITNT_TEMPLATES;
}

public static Template getTempalate(String templateName) {
    if (templateName != null) {
        Template test = new Template();
        test.addParameter("ep_param1");
    }
}

```

```

        test.addParameter("ep_param2");
        test.setName(templateName);

        return test;
    }
    return null;
}

}
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 * limitations under the License.
 */

package org.wso2.carbon.mediation.templates.ui;

import org.apache.axiom.om.OMElement;
import org.apache.axis2.AxisFault;
import org.apache.axis2.client.Options;
import org.apache.axis2.client.ServiceClient;
import org.apache.axis2.context.ConfigurationContext;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.CarbonConstants;
import org.wso2.carbon.mediation.service.templates.TemplateMediator;
import org.wso2.carbon.mediation.templates.stub.types.TemplateAdminServiceStub;
import org.wso2.carbon.mediation.templates.stub.types.common.TemplateInfo;
import org.wso2.carbon.mediator.service.builtin.SequenceMediator;
import org.wso2.carbon.sequences.common.SequenceEditorException;
import org.wso2.carbon.sequences.common.to.SequenceInfo;
import org.wso2.carbon.sequences.ui.client.SequenceAdminClient;
import org.wso2.carbon.ui.CarbonUIUtil;
import org.wso2.carbon.utils.ServerConstants;

import javax.servlet.ServletConfig;
import javax.servlet.http.HttpSession;

```

```

import java.util.ArrayList;
import java.util.List;

/**
 * Client class which is being called by the <em>template-editor</em> component user interface JSPs.
 * This class presents itself as an adapter on the sequence editor admin service
 */
public class TemplateAdminClientAdapter extends SequenceAdminClient {

    private static final Log log = LogFactory.getLog(TemplateAdminClientAdapter.class);
    private TemplateAdminServiceStub templateAdminStub;

    public TemplateAdminClientAdapter(ServletConfig config, HttpSession session) throws AxisFault {
        super(config, session);
        String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
        ConfigurationContext configContext = (ConfigurationContext)
            config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
        String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
        String serviceURL = backendServerURL + "TemplateAdminService";
        templateAdminStub = new TemplateAdminServiceStub(configContext, serviceURL);
        ServiceClient client = templateAdminStub._getServiceClient();
        Options option = client.getOptions();
        option.setManageSession(true);
        option.setProperty(org.apache.axis2.transport.http.HTTPConstants.COOKIE_STRING, cookie);
    }

    public SequenceInfo[] getSequences(int pageNumber, int sequencePerPage)
        throws SequenceEditorException {
        return getTemplates(pageNumber, sequencePerPage);
    }

    public SequenceInfo[] getTemplates(int pageNumber, int templatesPerPage)
        throws SequenceEditorException {
        List<SequenceInfo> sequences = new ArrayList<SequenceInfo>();
        try {
            TemplateInfo[] temp =
                templateAdminStub.getTemplates(pageNumber, templatesPerPage);
            if (temp == null || temp.length == 0 || temp[0] == null) {
                return null;
            }
        }

        for (TemplateInfo info : temp) {
            SequenceInfo seqInfo = new SequenceInfo();
            seqInfo.setEnableStatistics(info.getEnableStatistics());
            seqInfo.setEnableTracing(info.getEnableTracing());
            seqInfo.setName(info.getName());
            seqInfo.setDescription(info.getDescription());
            sequences.add(seqInfo);
        }
    }
}

```

```

    }
} catch (Exception e) {
    handleException("Couldn't retrieve the information of the templates", e);
}

if (sequences.size() > 0) {
    return sequences.toArray(new SequenceInfo[sequences.size()]);
}
return null;
}

public int getSequencesCount() throws SequenceEditorException {
    return getTemplatesCount();
}

public int getTemplatesCount() throws SequenceEditorException {
    try {
        return templateAdminStub.getTemplatesCount();
    } catch (Exception e) {
        handleException("Couldn't retrieve the template element count", e);
    }
    return 0;
}

private OMElement getTemplate(String templateName) throws SequenceEditorException {
    OMElement element = null;
    try {
        element = templateAdminStub.getTemplate(templateName).getFirstElement();
    } catch (Exception e) {
        handleException("Couldn't retrieve the template element with name '"
            + templateName + "'", e);
    }
    return element;
}

public void saveSequence(SequenceMediator sequence) throws SequenceEditorException {
    saveTemplate(sequence);
}

public void saveTemplate(SequenceMediator template) throws SequenceEditorException {
    OMElement sequenceElem = template.serialize(null);
    try {
        templateAdminStub.saveTemplate(sequenceElem);
    } catch (Exception e) {
        handleException("Error in saving the template with the configuration '"
            + sequenceElem + "'", e);
    }
}

```

```

}

public void addSequence(SequenceMediator sequence) throws SequenceEditorException {
    addTemplate(sequence);
}

public void addTemplate(SequenceMediator template) throws SequenceEditorException {
    OMElement sequenceElem = template.serialize(null);
    try {
        templateAdminStub.addTemplate(sequenceElem);
    } catch (Exception e) {
        handleException("Error in adding the template with the configuration "
            + sequenceElem + "", e);
    }
}

public void addDynamicSequence(String key, SequenceMediator sequence)
    throws SequenceEditorException {
    addDynamicTemplate(key, sequence);
}

public void addDynamicTemplate(String key, SequenceMediator sequence)
    throws SequenceEditorException {
    OMElement sequenceElem = sequence.serialize(null);
    try {
        templateAdminStub.addDynamicTemplate(key, sequenceElem);
    } catch (Exception e) {
        handleException("Error in adding dynamic template with configuration "
            + sequenceElem + " to the registry with key " + key + "", e);
    }
}

public OMElement getDynamicSequence(String key) throws SequenceEditorException {
    return getDynamicTemplate(key);
}

public OMElement getDynamicTemplate(String key) throws SequenceEditorException {
    OMElement dynamicSequence = null;
    try {
        dynamicSequence = templateAdminStub.getDynamicTemplate(key);
    } catch (Exception e) {
        handleException("Couldn't get dynamic template with key " + key + "", e);
    }
    return dynamicSequence;
}

public void saveDynamicSequence(String key, SequenceMediator sequence)
    throws SequenceEditorException {

```

```

        saveDynamicTemplate(key, sequence);
    }

    public void saveDynamicTemplate(String key, SequenceMediator template)
        throws SequenceEditorException {
        OMElement sequenceElem = template.serialize(null);
        try {
            templateAdminStub.saveDynamicTemplate(key, sequenceElem);
        } catch (Exception e) {
            handleException("Error in saving dynamic template with configuration '"
                + sequenceElem + "' for key '" + key + "'", e);
        }
    }

    public String enableTracing(String templateName) throws SequenceEditorException {
        String state = null;
        try {
            state = templateAdminStub.enableTracing(templateName);
        } catch (Exception e) {
            handleException("Couldn't enable tracing for the template '"
                + templateName + "'", e);
        }
        return state;
    }

    public String disableTracing(String templateName) throws SequenceEditorException {
        String state = null;
        try {
            state = templateAdminStub.disableTracing(templateName);
        } catch (Exception e) {
            handleException("Couldn't disable tracing for the template '"
                + templateName + "'", e);
        }
        return state;
    }

    public String enableStatistics(String templateName) throws SequenceEditorException {
        String state = null;
        try {
            state = templateAdminStub.enableStatistics(templateName);
        } catch (Exception e) {
            handleException("Couldn't enable statistics for the template '"
                + templateName + "'", e);
        }
        return state;
    }

    public String disableStatistics(String templateName) throws SequenceEditorException {

```

```

String state = null;
try {
    state = templateAdminStub.disableStatistics(templateName);
} catch (Exception e) {
    handleException("Couldn't disable statistics for the template '"
        + templateName + "'", e);
}
return state;
}

public void deleteSequence(String sequenceName) throws SequenceEditorException {
    deleteTemplate(sequenceName);
}

public void deleteTemplate(String templateName) throws SequenceEditorException {
    try {
        templateAdminStub.deleteTemplate(templateName);
    } catch (Exception e) {
        handleException("Couldn't delete the sequence '" + templateName + "'", e);
    }
}

/*
public String getEntryNamesString() throws SequenceEditorException {
    String localRegistryKeys = null;
    try {
        localRegistryKeys = templateAdminStub.getEntryNamesString();
    } catch (Exception e) {
        handleException("Couldn't get local registry Keys", e);
    }
    return localRegistryKeys;
}
*/

public void updateDynamicSequence(String key, SequenceMediator sequence)
    throws SequenceEditorException {
    updateDynamicTemplate(key, sequence);
}

public void updateDynamicTemplate(String key, SequenceMediator template)
    throws SequenceEditorException {
    try {
        OMElement templateElem = template.serialize(null);
        templateAdminStub.updateDynamicTemplate(key, templateElem);
    } catch (Exception e) {
        handleException("Couldn't update template with key '" + key + "'", e);
    }
}

```

```

public void deleteDynamicSequence(String key) throws SequenceEditorException {
    deleteDynamicTemplate(key);
}

public void deleteDynamicTemplate(String key) throws SequenceEditorException {
    try {
        templateAdminStub.deleteDynamicTemplate(key);
    } catch (Exception e) {
        handleException("Couldn't delete template with key '" + key + "'", e);
    }
}

public SequenceInfo[] getDynamicSequences(int pageNumber, int sequencePerPage)
    throws SequenceEditorException {
    return getDynamicTemplates(pageNumber, sequencePerPage);
}

public SequenceInfo[] getDynamicTemplates(int pageNumber, int sequencePerPage)
    throws SequenceEditorException {
    List<SequenceInfo> sequences = new ArrayList<SequenceInfo>();
    try {
        TemplateInfo[] temp =
            templateAdminStub.getDynamicTemplates(pageNumber, sequencePerPage);
        if (temp == null || temp.length == 0 || temp[0] == null) {
            return null;
        }

        for (TemplateInfo info : temp) {
            SequenceInfo seqInfo = new SequenceInfo();
            seqInfo.setName(info.getName());
            sequences.add(seqInfo);
        }
    } catch (Exception e) {
        handleException("Couldn't retrieve the information of the templates", e);
    }

    if (sequences.size() > 0) {
        return sequences.toArray(new SequenceInfo[sequences.size()]);
    }
    return null;
}

public int getDynamicSequenceCount() throws SequenceEditorException {
    return getDynamicTemplateCount();
}

public int getDynamicTemplateCount() throws SequenceEditorException {

```



```

try {
    return templateAdminStub.getDynamicTemplateCount();
} catch (Exception e) {
    handleException("Couldn't retrieve the dynamic template element count", e);
}
return 0;
}

/*
public ConfigurationObject[] getDependents(String sequence) throws SequenceEditorException {
    try {
        org.wso2.carbon.sequences.ui.types.common.to.ConfigurationObject[] tempDependents =
            templateAdminStub.getDependents(sequence);
        if (tempDependents != null && tempDependents.length > 0 && tempDependents[0] != null) {
            ConfigurationObject[] dependents = new ConfigurationObject[tempDependents.length];
            for (int i = 0; i < dependents.length; i++) {
                dependents[i] = new ConfigurationObject(tempDependents[i].getType(),
                    tempDependents[i].getResourceId());
            }
            return dependents;
        }
    } catch (Exception e) {
        handleException("Couldn't get the dependents for the sequence : " + sequence, e);
    }
    return null;
}
*/

public SequenceMediator getSequenceMediator(String sequenceName)
    throws SequenceEditorException {
    return getTemplateMediator(sequenceName);
}

public SequenceMediator getTemplateMediator(String templateName)
    throws SequenceEditorException {
    OMElement ele = getTemplate(templateName);
    if (ele != null) {
        SequenceMediator sequence = new TemplateMediator();
        sequence.build(ele);
        return sequence;
    }
    return null;
}

private void handleException(String message, Throwable e) throws SequenceEditorException {
    log.error(message, e);
    throw new SequenceEditorException(message, e);
}

```

}

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1.687 org.wso2.carbon.mediation.tracer.stub

4.2.0

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1.688 org.wso2.carbon.mediation.tracer.ui

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1.697 org.wso2.carbon.mediator.call.ui 4.2.0

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1.698 org.wso2.carbon mediator.callout.ui

4.2.0

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1.699

org.wso2.carbon.mediator.calltemplate.ui

4.2.0

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```
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<%--
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--%>
```

```

<% @ page import="java.util.ArrayList" %>
<% @ page import="org.wso2.carbon.mediator.calltemplate.client.TemplateAdminClient" %>
<% @ page import="org.wso2.carbon.mediator.calltemplate.util.CallUtil" %>
<% @ page import="org.apache.synapse.util.xpath.SynapseXPath" %>
<% @ page import="org.wso2.carbon.mediator.calltemplate.util.Value" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>

<fmt:bundle basename="org.wso2.carbon.mediator.calltemplate.i18n.Resources">

<%
    TemplateAdminClient templateAdminClient
        = new TemplateAdminClient(this.getServletConfig(), session);

    String templateName = request.getParameter("templateSelect");
    String paramStr = templateAdminClient.getParameterStringForTemplate(templateName);
    /*
    System.out.println("get Template params processor....." + " templ name : " + templateName +
        " paramStr : " + paramStr);
    */

    String[] callTemplateParamList = CallUtil.extractParamNames(paramStr);
%>

<%
    int i = 0;
    for (String mp : callTemplateParamList) {
        if (!(mp.isEmpty())) {
            Value value = null;
            SynapseXPath synapseXPath = null;
            boolean isLiteral = true;
        }
%>
<tr id="propertyRaw<%=i%>">
    <td><input type="text" name="propertyName<%=i%>" id="propertyName<%=i%>"
        value="<%=mp%>"/>
    </td>
    <td>
        <select name="propertyTypeSelection<%=i%>"
            id="propertyTypeSelection<%=i%>"
            onchange="onPropertyTypeSelectionChange('<%=i%>','<fmt:message key="namespaces"/>')">
            <% if (isLiteral) {%>
            <option value="literal">
                <fmt:message key="value"/>
            </option>
            <option value="expression">
                <fmt:message key="expression"/>
            </option>
        }
    }
%>

```

```

    <% } else if (synapseXPath != null) { %>
    <option value="expression">
      <fmt:message key="expression"/>
    </option>
    <option value="literal">
      <fmt:message key="value"/>
    </option>
    <% } else { %>
    <option value="literal">
      <fmt:message key="value"/>
    </option>
    <option value="expression">
      <fmt:message key="expression"/>
    </option>
    <% } %>
  </select>
</td>
<td>
  <% if (value != null && isLiteral) { %>
  <input id="propertyValue<%=i%>" name="propertyValue<%=i%>" type="text"
    value="<%=value.getKeyValue()%>"
    />
  <% } else if (synapseXPath != null) { %>
  <input id="propertyValue<%=i%>" name="propertyValue<%=i%>" type="text"
    value="<%=synapseXPath.toString()%>"/>
  <% } else { %>
  <input id="propertyValue<%=i%>" name="propertyValue<%=i%>" type="text"/>
  <% } %>
</td>

<td id="dynamicXPathCol<%=i%>" style="<%=isLiteral? "display:none;" : ""%>">
  <% if (value!=null && !isLiteral && synapseXPath != null) { %>
  <script type="text/javascript">
    document.getElementById("dynamic-xpath-th").style.display = "";
  </script>
  <input id="dynamicCheckbox<%=i%>" name="dynamicCheckbox<%=i%>" type="checkbox"
    value="true" <%=value.hasExprTypeKey()? "CHECKED":""%> />
  <% } %>
</td>

<td id="nsEditorButtonTD<%=i%>" style="<%=isLiteral? "display:none;" : ""%>">
  <% if (!isLiteral && synapseXPath != null) { %>
  <script type="text/javascript">
    document.getElementById("ns-edior-th").style.display = "";
  </script>
  <a href="#nsEditorLink" class="nseditor-icon-link"
    style="padding-left:40px"
    onclick="showNameSpaceEditor('propertyValue<%=i%>')"><fmt:message
    key="namespaces"/></a>

```

```

        <% }%>
    </td>

    <td><a href="#" class="delete-icon-link" onclick="deleteproperty('<%=i%>');return false;"><fmt:message
        key="delete"/></a></td>
</tr>
<%
    i++;
    }

}
%>
<input type="hidden" name="propertyCount" id="propertyCount" value="<%=i%>"/>
<script type="text/javascript">
    if (isRemainPropertyExpressions()) {
        resetDisplayStyle("");
    }else{
        resetDisplayStyle("none");
    }
    var paramCount = 0;
    paramCount = <%=i%>;
    var propertytable = document.getElementById("propertytable");
    if(paramCount>0){
        propertytable.style.display = "";
    }
    else{
        propertytable.style.display = "none";
    }
</script>
</fmt:bundle>
/*
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*/

```

```

package org.wso2.carbon.mediator.calltemplate;

import org.wso2.carbon.mediator.service.AbstractMediatorService;
import org.wso2.carbon.mediator.service.ui.Mediator;

/**
 *
 */
public class CallTemplateService extends AbstractMediatorService {

    public String getTagLocalName() {
        return "call-template";
    }

    public String getUIFolderName(){
        return "calltemplate";
    }

    public String getDisplayName() {
        return "Call Template";
    }

    public String getLogicalName() {
        return "CallTemplateMediator";
    }

    public String getGroupName() {
        return "Core";
    }

    public Mediator getMediator() {
        return new CallTemplateMediator();
    }
}
/*
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*/
package org.wso2.carbon.mediator.calltemplate;

import org.apache.axiom.om.OMAttribute;
import org.apache.axiom.om.OMElement;
import org.apache.synapse.SynapseException;
import org.apache.synapse.config.xml.XMLConfigConstants;
import org.wso2.carbon.mediator.service.ui.AbstractMediator;
import org.wso2.carbon.mediator.calltemplate.util.Value;
import org.wso2.carbon.mediator.calltemplate.util.ValueFactory;
import org.wso2.carbon.mediator.calltemplate.util.ValueSerializer;

import javax.xml.namespace.QName;
import java.util.HashMap;
import java.util.Iterator;
import java.util.LinkedHashMap;
import java.util.Map;

public class CallTemplateMediator extends AbstractMediator {
    /**
     * refers to the target template this is going to invoke
     * this is a read only attribute of the mediator
     */
    private String targetTemplate;

    /**
     * maps each parameter name to a Expression/Value
     * this is a read only attribute of the mediator
     */
    private Map<String, Value> pName2ExpressionMap;

    public static final QName WITH_PARAM_Q = new QName(XMLConfigConstants.SYNAPSE_NAMESPACE,
"with-param");

    public static final String INVOKE_N = "call-template";

    public CallTemplateMediator() {
        pName2ExpressionMap = new LinkedHashMap<String, Value>();
    }

    public String getTargetTemplate() {
        return targetTemplate;
    }

    public void setTargetTemplate(String targetTemplate) {

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        this.targetTemplate = targetTemplate;
    }

    public Map<String, Value> getPName2ExpressionMap() {
        return pName2ExpressionMap;
    }

    public void addExpressionForParamName(String pName, Value expr) {
        pName2ExpressionMap.put(pName, expr);
    }

    public String getTagLocalName() {
        return "call-template";
    }

    public OMElement serialize(OMElement parent) {

        OMElement callTemplateElem = fac.createOMElement(INVOKE_N, synNS);

        if (this.getTargetTemplate() != null) {
            callTemplateElem.addAttribute(fac.createOMAttribute(
                "target", nullNS, this.getTargetTemplate()));

            serializeParams(callTemplateElem, this);
            saveTracingState(callTemplateElem, this);
        }

        if (parent != null) {
            parent.addChild(callTemplateElem);
        }
        return callTemplateElem;
    }

    private void serializeParams(OMElement invokeElem, CallTemplateMediator mediator) {
        Map<String, Value> paramsMap = mediator.getPName2ExpressionMap();
        Iterator<String> paramIterator = paramsMap.keySet().iterator();
        while (paramIterator.hasNext()) {
            String paramName = paramIterator.next();
            if (!"".equals(paramName)) {
                OMElement paramEl = fac.createOMElement(WITH_PARAM_Q.getLocalPart(),
                    synNS);

                paramEl.addAttribute(fac.createOMAttribute("name", nullNS, paramName));
                //serialize value attribute
                Value value = paramsMap.get(paramName);
                new ValueSerializer().serializeValue(value, "value", paramEl);
                invokeElem.addChild(paramEl);
            }
        }
    }

```



```

    }

}

public void build(OMEElement elem) {
    // after successfully creating the mediator
    // set its common attributes such as tracing etc
    processAuditStatus(this, elem);
    OMAttribute targetTemplateAttr = elem.getAttribute(ATT_TARGET);
    if (targetTemplateAttr != null) {
        this.setTargetTemplate(targetTemplateAttr.getAttributeValue());
        buildParameters(elem);
    } else {
        String msg = "CALL template mediator should have a target template specified.";
//        log.error(msg);
        throw new SynapseException(msg);
    }
}

private void buildParameters(OMEElement elem) {
    Iterator subElements = elem.getChildElements();
    while (subElements.hasNext()) {
        OMEElement child = (OMEElement) subElements.next();
        if (child.getQName().equals(WITH_PARAM_Q)) {
            OMAttribute paramNameAttr = child.getAttribute(ATT_NAME);
            Value paramValue = new ValueFactory().createValue("value", child);
            if (paramNameAttr != null) {
                //set parameter value
                this.addExpressionForParamName(paramNameAttr.getAttributeValue(), paramValue);
            }
        }
    }
}

}

}

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*/
package org.wso2.carbon.mediator.calltemplate;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.osgi.framework.BundleActivator;
import org.osgi.framework.BundleContext;
import org.wso2.carbon.mediator.service.MediatorService;

/**
 *
 */
public class CallTemplateActivator implements BundleActivator {

    private static final Log log = LogFactory.getLog(CallTemplateActivator.class);

    public void start(BundleContext bundleContext) throws Exception {

        if (log.isDebugEnabled()) {
            log.debug("Starting the call-template mediator component ...");
        }

        //Properties props = new Properties();
        bundleContext.registerService(
            MediatorService.class.getName(), new CallTemplateService(), null);

        if (log.isDebugEnabled()) {
            log.debug("Successfully registered the call-template mediator service");
        }
    }

    public void stop(BundleContext bundleContext) throws Exception {
        if (log.isDebugEnabled()) {
            log.debug("Stopped the call-template mediator component ...");
        }
    }
}
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*/
package org.wso2.carbon.mediator.calltemplate.client;

public class CallTemplateUIException extends Exception{

    public CallTemplateUIException(String msg){
        super(msg);
    }

    public CallTemplateUIException(String msg, Throwable e){
        super(msg, e);
    }
}
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package org.wso2.carbon.mediator.calltemplate.client;

import org.apache.axiom.om.OMAttribute;
import org.apache.axiom.om.OMElement;
import org.apache.axis2.AxisFault;
import org.apache.axis2.client.Options;
import org.apache.axis2.client.ServiceClient;
import org.apache.axis2.context.ConfigurationContext;

```

```

import org.apache.synapse.config.xml.XMLConfigConstants;
import org.wso2.carbon.CarbonConstants;
import org.wso2.carbon.mediation.templates.stub.types.TemplateAdminServiceStub;
import org.wso2.carbon.mediation.templates.stub.types.common.TemplateInfo;
import org.wso2.carbon.ui.CarbonUIUtil;
import org.wso2.carbon.utils.ServerConstants;

import javax.servlet.ServletConfig;
import javax.servlet.http.HttpSession;
import javax.xml.namespace.QName;
import java.rmi.RemoteException;
import java.util.Arrays;
import java.util.Iterator;

public class TemplateAdminClient {
    public static final QName PARAMETER_Q = new QName(XMLConfigConstants.SYNAPSE_NAMESPACE,
"parameter");
    public static final QName NAME_Q = new QName("name");
    private TemplateAdminServiceStub templateAdminStub;

    public TemplateAdminClient(ServletConfig config, HttpSession session) throws AxisFault {
        String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
        ConfigurationContext configContext = (ConfigurationContext)
            config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
        String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
        String serviceURL = backendServerURL + "TemplateAdminService";
        templateAdminStub = new TemplateAdminServiceStub(configContext, serviceURL);
        ServiceClient client = templateAdminStub._getServiceClient();
        Options option = client.getOptions();
        option.setManageSession(true);
        option.setProperty(org.apache.axis2.transport.http.HTTPConstants.COOKIE_STRING, cookie);
    }

    public String[] getAllTemplateNames() throws CallTemplateUIException {
        String[] staticTemplateNames = new String[0];
        String[] dynamicTemplateNames = new String[0];
        try {
            staticTemplateNames = getStaticTemplateNames();
        } catch (Exception e) {
            handleException("CallTemplateUI Couldn't retrieve info on static Template Names ", e);
        }
        try {
            dynamicTemplateNames = getDynamicTemplateNames();
        } catch (Exception e) {
            handleException("CallTemplateUI Couldn't retrieve info on dynamic Tempalate Names ", e);
        }
        return merge(staticTemplateNames, dynamicTemplateNames);
    }
}

```

```

}

/**
 * This method will try to derive the parameter names for a given template name
 *
 * @param tempalteName
 * @return parameter name string, string will be on the format og p1;p2;p3 ...
 * @throws CallTemplateUIException
 */
public String getParameterStringForTemplate(String tempalteName) throws CallTemplateUIException {
    OMElement mediatorElement = null;
    try {
        mediatorElement = templateAdminStub.getTemplate(tempalteName).getFirstElement();
    } catch (Exception e) {
        handleException("CallTemplateUI Couldn't retrieve the template element with name '"
            + tempalteName + "'", e);
    }
    if (mediatorElement != null) {
        return getTempalateParamsString(mediatorElement);
    } else {
        try {
            mediatorElement = templateAdminStub.getDynamicTemplate(tempalteName).getFirstElement();
        } catch (Exception e) {
            handleException("CallTemplateUI Couldn't retrieve the template element with name '"
                + tempalteName + "'", e);
        }
        return getTempalateParamsString(mediatorElement);
    }
}

private static String getTempalateParamsString(OMElement templateElem) {
    Iterator subElements = templateElem.getChildElements();
    String templateParamsStr = "";
    while (subElements.hasNext()) {
        OMElement child = (OMElement) subElements.next();
        if (child.getQName().equals(PARAMETER_Q)) {
            OMAAttribute paramNameAttr = child.getAttribute(NAME_Q);
            if (paramNameAttr != null) {
                templateParamsStr = templateParamsStr + paramNameAttr.getAttributeValue() + ";";
            }
        }
    }
    return templateParamsStr;
}

```

```

private static String[] merge(String[] first, String[] second) {

```

```

String[] result = Arrays.copyOf(first, first.length + second.length);
System.arraycopy(second, 0, result, first.length, second.length);
return result;
}

private String[] getStaticTemplateName() throws RemoteException {
    int staticTemplateCount = templateAdminStub.getTemplatesCount();
    TemplateInfo[] temp1 =
        templateAdminStub.getTemplates(0, staticTemplateCount);
    String[] staticTemplateName;
    if (temp1 == null || temp1.length == 0 || temp1[0] == null) {
        staticTemplateName = new String[0];
    } else {
        staticTemplateName = new String[temp1.length];
        int i = 0;
        for (TemplateInfo templateInfo : temp1) {
            staticTemplateName[i] = templateInfo.getName();
            i++;
        }
    }
    return staticTemplateName;
}

private String[] getDynamicTemplateName() throws RemoteException {
    int dynamicTemplateCount = templateAdminStub.getDynamicTemplateCount();
    TemplateInfo[] temp1 =
        templateAdminStub.getDynamicTemplates(0, dynamicTemplateCount);
    String[] dynamicTemplateName;
    if (temp1 == null || temp1.length == 0 || temp1[0] == null) {
        dynamicTemplateName = new String[0];
    } else {
        dynamicTemplateName = new String[temp1.length];
        int i = 0;
        for (TemplateInfo templateInfo : temp1) {
            dynamicTemplateName[i] = templateInfo.getName();
            i++;
        }
    }
    return dynamicTemplateName;
}

private void handleException(String message, Throwable e) throws CallTemplateUIException {
    // log.error(message, e);
    throw new CallTemplateUIException(message, e);
}
}

```

1.700

org.wso2.carbon mediator.clazz.services

4.2.0

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1.701 org.wso2.carbon mediator.clazz.ui 4.2.0

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1.724 org.wso2.carbon.mediator.oauth.ui

4.2.0

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1.725 org.wso2.carbon mediator.out.ui 4.2.0

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1.741 org.wso2.carbon.mediator.target.ui

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1.746 org.wso2.carbon mediator.validate.ui

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1.747 org.wso2.carbon.mediator.xquery.ui

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1.754 org.wso2.carbon.message.processor.ui

4.2.0

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```
<%--
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~
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~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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~ limitations under the License.
--%>

<% @ page contentType="text/html" pageEncoding="UTF-8" %>
<% @ page import="org.apache.axiom.om.OMElement" %>
<% @ page import="org.apache.axiom.om.util.AXIOMUtil" %>
<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.wso2.carbon.message.processor.ui.MessageProcessorAdminServiceClient" %>
<% @ page import="org.wso2.carbon.message.processor.ui.MessageStoreAdminServiceClient" %>
<% @ page import="org.wso2.carbon.message.processor.ui.utils.MessageProcessorData" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>
<fmt:bundle basename="org.wso2.carbon.message.processor.ui.i18n.Resources">
<carbon:jsi18n resourceBundle="org.wso2.carbon.message.processor.ui.i18n.JSResources"
    request="<%=request%>" i18nObjectName="messageStorei18n"/>
<script src="../../editarea/edit_area_full.js" type="text/javascript"></script>
<script type="text/javascript" src="localentrycommons.js"></script>

<script type="text/javascript" src="../../ajax/js/prototype.js"></script>
<jsp:include page="../../resources/resources-i18n-ajaxprocessor.jsp"/>
<script type="text/javascript" src="../../yui/build/yahoo-dom-event/yahoo-dom-event.js"></script>
<script type="text/javascript" src="../../yui/build/container/container_core-min.js"></script>
<script type="text/javascript" src="../../yui/build/yahoo/yahoo-min.js"></script>
```

```
<script type="text/javascript" src="../yui/build/event/event-min.js"></script>
<script type="text/javascript" src="../yui/build/connection/connection-min.js"></script>
<script type="text/javascript" src="../yui/build/menu/menu-min.js"></script>
<script type="text/javascript" src="../resources/js/resource_util.js"></script>
<script type="text/javascript" src="../message_processor/js/registry-browser.js"></script>
```

```
<carbon:breadcrumb
  label="Message Processor"
  resourceBundle="org.wso2.carbon.message.processor.ui.i18n.Resources"
  topPage="false"
  request="<%=request%>" />
```

```
<script type="text/javascript">
```

```
String.prototype.trim = function() {
  return this.replace(/^\s+|\s+$/g, "");
}
```

```
String.prototype.ltrim = function() {
  return this.replace(/^\s+/, "");
}
```

```
String.prototype.rtrim = function() {
  return this.replace(/\s+$/, "");
}
```

```
function ValidateTextForm(form) {
  if (IsEmpty(form.Name)) {
    CARBON.showWarningDialog('<fmt:message key="name.field.cannot.be.empty"/>')
    form.Name.focus();
    return false;
  }
}
```

```
if (IsEmpty(form.Provider)) {
  CARBON.showWarningDialog('<fmt:message key="provider.field.cannot.be.empty"/>')
  form.Name.focus();
  return false;
}
```

```
if (IsEmpty(form.MessageStore)) {
  CARBON.showWarningDialog('<fmt:message key="store.field.cannot.be.empty"/>')
  form.Name.focus();
  return false;
}
```

```
if (IsEmpty(form.Sequence)) {
  CARBON.showWarningDialog('<fmt:message key="sequence.field.cannot.be.empty"/>')
  form.Name.focus();
}
```

```

        return false;
    }

    return true;
}

function isEmpty(aTextField) {
    if ((aTextField.value.trim().length == 0) ||
        (aTextField.value.trim() == null) || (aTextField.value.trim() == "")) {
        return true;
    }
    else {
        return false;
    }
}

function submitTextContent(value) {
    if(validateSubmit()){
        return true;
    }
    addServiceParams();
    //document.Submit.submit();
    return true;
}

function validateSubmit(){
    try{
        var iInterval = parseInt(document.getElementById('retry_interval').value);
        if(iInterval <= 0){
            CARBON.showErrorDialog('Invalid ' + '<fmt:message key="interval"/>');
            return true;
        }
    }catch(e){
        CARBON.showErrorDialog('Invalid ' + '<fmt:message key="interval"/>');
        return true;
    }
    return false;
}

function addServiceParams() {
    addServiceParameter("interval", document.getElementById('retry_interval').value);
    addServiceParameter("concurrency", document.getElementById('sampling_concurrency').value);
    addServiceParameter("sequence", document.getElementById('Sequence').value);
    addServiceParameter("quartz.conf", document.getElementById('quartz_conf').value);
    addServiceParameter("cronExpression", document.getElementById('cron_expression').value);
    addServiceParameter("pinnedServers", document.getElementById('pinnedServers').value);
    addServiceParameter("is.active", document.getElementById('mp_state').value);
}

```

```

}

function addServiceParameter(parameter, value) {
    var headerName = parameter;
    var headerValue = value;

    // trim the input values
    headerValue = headerValue.replace(/^\s*/, "").replace(/\s*$/, "");
    if (headerValue != "") {
        document.getElementById("tableParams").value = document.getElementById("tableParams").value + "|" +
headerName + "#" + headerValue;
        document.getElementById("addedParams").value = document.getElementById("addedParams").value + "," +
headerName + ":" + headerValue;
    }
}

function gotoPrevPage() {

    history.go(-1);
}

function showAdvancedOptions(id) {
    var formElem = document.getElementById(id + '_advancedForm');
    if (formElem.style.display == 'none') {
        formElem.style.display = "";
        document.getElementById(id + '_adv').innerHTML = '<a class="icon-link" ' +
            'onclick="javascript:showAdvancedOptions(\' + id + '\');" style="background-image:
url(images/up.gif);">' + "<fmt:message key="hide.additional.parameters"/>" + '</a>';
    } else {
        formElem.style.display = 'none';
        document.getElementById(id + '_adv').innerHTML = '<a class="icon-link" ' +
            'onclick="javascript:showAdvancedOptions(\' + id + '\');" style="background-image:
url(images/down.gif);">' + "<fmt:message key="show.additional.parameters"/>" + '</a>';
    }
}

function switchToSource() {
    if (!ValidateTextForm(document.Submit)) {
        return false;
    }
    addServiceParams();
    var messageStoreStr = {Name : document.getElementById("Name").value, Provider :
document.getElementById("Provider").value, MessageStore : document.getElementById("MessageStore").value,
tableParams : document.getElementById("tableParams").value};
    jQuery.ajax({
        type: 'POST',
        url: 'updatePages/messageProcessorUpdate.jsp',
        data: messageStoreStr,

```

```

        success: function(msg) {
            location.href = "sourceView.jsp";
        }
    });
}
</script>

<div id="middle">
<h2><fmt:message key="message.sampling.processor"/></h2>

<div id="workArea">
<form name="Submit" action="ServiceCaller.jsp" method="POST"
    onsubmit="javascript:return ValidateTextForm(this)">
<input type="hidden" id="addedParams" name="addedParams" value=""/>
<input type="hidden" id="removedParams" name="removedParams" value=""/>
<input type="hidden" id="tableParams" name="tableParams" value="PARAMS:"/>
<% String origin = request.getParameter("origin");

String messageStoreName = request.getParameter("messageProcessorName");
String url = CarbonUIUtil.getServerURL(this.getServletConfig().getServletContext(),
    session);
ConfigurationContext configContext =
    (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
MessageProcessorAdminServiceClient client = new MessageProcessorAdminServiceClient(cookie, url,
configContext);
String[] messageProcessorNames = client.getMessageProcessorNames();

MessageProcessorData processorData = null;

if (messageStoreName != null) {
    session.setAttribute("edit" + messageStoreName, "true");
    for (String name : messageProcessorNames) {
        if (name != null && name.equals(messageStoreName)) {
            processorData = client.getMessageProcessor(name);
        }
    }
} else if (origin != null && !"".equals(origin)) {
    String mpString = (String) session.getAttribute("messageProcessorConfiguration");
    String mpName = (String) session.getAttribute("mpName");
    String mpProvider = (String) session.getAttribute("mpProvider");
    String mpStore = (String) session.getAttribute("mpStore");

    session.removeAttribute("messageProcessorConfiguration");
    session.removeAttribute("mpName");
    session.removeAttribute("mpProvider");
    session.removeAttribute("mpStore");
}

```

```

mpString = mpString.replaceAll("\\s\\s+|\\n\\r", ""); // remove the pretty printing from the string
OMElement messageProcessorElement = AXIOMUtil.stringToOM(mpString);
processorData = new MessageProcessorData(messageProcessorElement.toString());
processorData.setName(mpName);
processorData.setClazz(mpProvider);
processorData.setMessageStore(mpStore);
}

MessageStoreAdminServiceClient messageStoreClient =
    new MessageStoreAdminServiceClient(cookie, url, configContext);

String[] messageStores = messageStoreClient.getMessageStoreNames();

%>

<%
    if (messageStores == null || messageStores.length == 0) {
%>
<script type="text/javascript">

    function showZeroMSError() {

        CARBON.showErrorDialog('<fmt:message key="cannot.add.message.Processor"/>' + 'No Message Stores
defined.', gotoPrevPage);

    }
    YAHOO.util.Event.onDOMReady(showZeroMSError);
    //      onload=;
</script>
<%
    } else {
%>
<table cellpadding="0" cellspacing="0" border="0" class="styledLeft noBorders">
    <thead>
    <tr>
        <th colspan="2"><span style="float: left; position: relative; margin-top: 2px;">
            <fmt:message key="message.sampling.processor"/></span>
            <a class="icon-link"
                style="background-image: url(images/source-view.gif);"
                onclick="switchToSource();"
                href="#"><fmt:message key="switch.to.source.view"/></a>
        </th>
    </tr>
    </thead>
    <tbody>

```

```

<tr>
  <td>
    <table class="normal-nopadding">
      <body>
        <input type="hidden" name="pageName" value="manageMessageProcessor.jsp"/>
        <%if (processorData != null) { %>
          <tr>
            <td width="276px"><fmt:message key="name"/><span class="required"> *</span></td>
            <td>
              <input id="Name" name="Name" type="hidden"
                value="<%=processorData.getName()%>"/>
              <label for="Name"><%=processorData.getName()%>
              </label>
            </td>
          </tr>
          <% } else { %>
            <tr>
              <td width="276px"><fmt:message key="name"/><span class="required"> *</span></td>
              <td><input id="Name" type="text" size="60" name="Name" value=""/></td>
            </tr>
          <% } %>
          <%if ((processorData != null)) { %>
            <tr>
              <td><fmt:message key="provider"/><span class="required"> *</span></td>
              <td>
                <input name="Provider" id="Provider" type="hidden"
                  value="org.apache.synapse.message.processor.impl.sampler.SamplingProcessor"/>
                <%
                  String providerLabel = "Message Sampling Processor";
                %>
                <label id="Provider_label" for="Provider"><%=providerLabel%>
                </label>
                <br/>
              </td>
            </tr>
          <% } else { %>
            <input id="Provider" name="Provider" type="hidden"
              value="org.apache.synapse.message.processor.impl.sampler.SamplingProcessor"/>
          <% } %>
          <tr>
            <td><fmt:message key="sequence"/><span class="required"> *</span></td>
            <td><input type="text" size="60" id="Sequence" name="Sequence"
              value="<%=((null!=processorData)&& processorData.getParams() != null
                &&
                !processorData.getParams().isEmpty()&&(processorData.getParams().get("sequence")!=null))?processorData.getPar
                ams().get("sequence"):""%>"/>
          </td>
        </tr>
      </body>
    </table>
  </td>
</tr>

```



```

        </td>
        <td>
            <a href="#" class="registry-picker-icon-link"
onclick="showRegistryBrowser('Sequence','/_system/config')"><fmt:message
key="processor.conf.registry.browser"/></a>
            <a href="#" class="registry-picker-icon-link"
onclick="showRegistryBrowser('Sequence','/_system/governance')"><fmt:message
key="processor.gov.registry.browser"/></a>
        </td>
    </tr>
    <%if ((processorData != null)) { %>
    <tr>
        <td><fmt:message key="message.store"/><span class="required"> *</span></td>
        <td>
            <input name="MessageStore" id="MessageStore" type="hidden"
                value="<%=processorData.getMessageStore()%>"/>
            <label id="MessageStore_label"
                for="MessageStore"><%=processorData.getMessageStore()%>
            </label>
            <br/>
        </td>
    </tr>
    <% } else { %>
    <tr>
        <td><fmt:message key="message.store"/><span class="required"> *</span></td>
        <td>
            <select id="MessageStore" name="MessageStore">
                <%for (String msn : messageStores) { %>
                <option selected="true" value="<%=msn%>"><%=msn%>
                </option>
                <% } %>
            </select>
        </td>
    </tr>
    <% } %>
    <tr>
        <td>
            <span id="_adv" style="float: left; position: relative;">
                <a class="icon-link" onclick="javascript:showAdvancedOptions();"
                    style="background-image: url(images/down.gif);"><fmt:message
                    key="show.additional.parameters"/></a>
            </span>
        </td>
    </tr>
</body>
</table>

```

```

<div id="_advancedForm" style="display:none">

```

```

<table class="normal-nopadding">
  <tbody>
    <tr>
      <td colspan="2" class="sub-header"><fmt:message
        key="message.sampling.processor.parameters"/></td>
    </tr>
    <td><fmt:message key="message.processor.state"/><span class="required"> *</span></td>
    <td>
      <select id="mp_state" name="mp_state">
        <% if (null!=processorData && processorData.getParams() != null) {
          if (!processorData.getParams().isEmpty()&&(processorData.getParams().get("is.active")!=null)
            && Boolean.valueOf(processorData.getParams().get("is.active"))) { %>
            <option value="false">Deactivate</option>
            <option value="true" selected>Activate</option>
          <% } else { %>
            <option value="false" selected>Deactivate</option>
            <option value="true">Activate</option>
          <% } %>
        <% } else { %>
          <option value="false">Deactivate</option>
          <option value="true" selected>Activate</option>
        <% } %>
      </select>
    </td>
  </tr>
  <tr>
    <td><fmt:message key="sampling.interval"/></td>
    <td><input type="text" id="retry_interval" name="retry_interval"
      value="<%=((null!=processorData)&& processorData.getParams() != null
        &&
!processorData.getParams().isEmpty()&&(processorData.getParams().get("interval")!=null))?processorData.getPara
ms().get("interval"): "1000"%>"
      />
    </td>
  </tr>
  <tr>
    <td><fmt:message key="sampling.concurrency"/></td>
    <td><input type="text" id="sampling_concurrency" name="sampling_concurrency"
      value="<%=((null!=processorData)&& processorData.getParams() != null
        &&
!processorData.getParams().isEmpty()&&(processorData.getParams().get("concurrency")!=null))?processorData.get
Params().get("concurrency"): "1"%>"
      />
    </td>
  </tr>
  <tr>
    <td><fmt:message key="quartz.conf"/></td>
    <td><input type="text" id="quartz_conf" name="quartz_conf"

```

```

                value="<%=((null!=processorData)&& processorData.getParams() != null
                    &&
!processorData.getParams().isEmpty()&&(processorData.getParams().get("quartz.conf")!=null))?processorData.get
Params().get("quartz.conf"):""%>"
                size="75"/>
            </td>
        </tr>
        <tr>
            <td><fmt:message key="cronExpression"/></td>
            <td><input type="text" id="cron_expression" name="cron_expression"
                value="<%=((null!=processorData)&& processorData.getParams() != null
                    &&
!processorData.getParams().isEmpty()&&(processorData.getParams().get("cronExpression")!=null))?processorData.
getParams().get("cronExpression"):""%>"
                size="75"/>
            </td>
        </tr>
        <tr>
            <td><fmt:message key="message.pinned.severs"/></td>
            <td><input type="text" id="pinnedServers" name="pinnedServers"
                value="<%=((null!=processorData)&& processorData.getParams() != null
                    &&
!processorData.getParams().isEmpty()&&(processorData.getParams().get("pinnedServers")!=null))?processorData.g
etParams().get("pinnedServers"):""%>"
                size="75"/>
            </td>
        </tr>
    </tbody>
</table>
</div>
</td>
</tr>
</tbody>
</table>

<table class="normal-nopadding">
    <tbody>
        <tr>
            <td colspan="2" class="buttonRow">
                <input type="submit" value="<fmt:message key="save"/>" class="button"
                    onclick="submitTextContent(document.Submit);"/>
                <input type="button" value="<fmt:message key="cancel"/>"
                    onclick="javascript:document.location.href='../message_processor/index.jsp?region=region1&item=messageProcess
                    or_menu&ordinal=0'"
                    class="button"/>
            </td>
        </tr>
    </tbody>
</table>

```

```

</table>
<% } %>
</form>
</div>
</div>
<script type="text/javascript">
  editAreaLoader.init({
    id : "Value"      // textarea id
    ,syntax: "xml"      // syntax to be uses for highliting
    ,start_highlight: true  // to display with highlight mode on start-up
  });
</script>
</fmt:bundle>

```

1.755 org.wso2.carbon.message.store 4.2.0

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1.759 org.wso2.carbon.module.mgt 4.2.0

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```

*/

package org.wso2.carbon.module.mgt.service.echo;

/**
 * Simple bean used in the echo service
 */
public class SimpleBean {
    private String[] a_r;
    private String[] b_r;
    private int c;

    public String[] getA_r() {
        return a_r;
    }

    public void setA_r(String[] a_r) {
        this.a_r = a_r;
    }

    public String[] getB_r() {
        return b_r;
    }

    public void setB_r(String[] b_r) {
        this.b_r = b_r;
    }

    public int getC() {
        return c;
    }

    public void setC(int c) {
        this.c = c;
    }
}

```

1.760 org.wso2.carbon.module.mgt.stub 4.2.0

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1.761 org.wso2.carbon.module.mgt.ui 4.2.0

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1.767 org.wso2.carbon.operation.mgt 4.2.0

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1.768 org.wso2.carbon.operation.mgt.stub

4.2.0

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1.769 org.wso2.carbon.operation.mgt.ui 4.2.0

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1.770 org.wso2.carbon.osgi.security 4.2.0

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 */
package org.wso2.carbon.osgi.security;

import org.osgi.framework.Bundle;
import org.osgi.framework.BundleContext;
import org.osgi.framework.BundleEvent;
import org.osgi.framework.BundleListener;
import org.osgi.service.permissionadmin.PermissionAdmin;
import org.osgi.service.permissionadmin.PermissionInfo;

import java.security.AllPermission;

/**
 * OSGi Security Permission Manager
 */
public class PermissionManager implements BundleListener {

    private BundleContext context;

    public PermissionManager(BundleContext context) {
        this.context = context;
    }

    public void bundleChanged(BundleEvent bundleEvent) {
        int event = bundleEvent.getType();
    }
}
```

```

if (event == BundleEvent.INSTALLED) {
    Bundle installedBundle = bundleEvent.getBundle();
    String bundleLocation = installedBundle.getLocation();
    PermissionAdmin permissionAdmin = getPermissionAdmin(context);
    if (permissionAdmin != null) {
        if (bundleLocation.startsWith("reference:file:plugins/")) {
            PermissionInfo[] superTenantPermInfos = {
                new PermissionInfo(AllPermission.class.getName(), "", ""),
                // new PermissionInfo(PackagePermission.class.getName(), "*",
PackagePermission.EXPORTONLY),
                // new PermissionInfo(PackagePermission.class.getName(), "*",
PackagePermission.IMPORT),
                // new PermissionInfo(PropertyPermission.class.getName(), "user.home", "read"),
                // new PermissionInfo(
                // FilePermission.class.getName(), file.getAbsolutePath(), "read"),
                // new PermissionInfo(
                // ServicePermission.class.getName(),
"org.eclipse.osgi.service.environment.EnvironmentInfo", ServicePermission.GET)

            };
            permissionAdmin.setPermissions(bundleLocation, superTenantPermInfos);
        } else {
            // TODO: For non-super-tenant bundles. Should we deal with them at a different level (when installing
cApps)
        }
    }
}

public PermissionAdmin getPermissionAdmin(BundleContext context) {
    return (PermissionAdmin)
context.getService(context.getServiceReference(PermissionAdmin.class.getName()));
}

/*public void bundleChanged(BundleEvent bundleEvent) {
    System.out.println("-----" + bundleEvent.getBundle().getSymbolicName());
    int event = bundleEvent.getType();

    /**if (event == BundleEvent.INSTALLED) {
        Bundle installedBundle = bundleEvent.getBundle();
        String bundleLocation = installedBundle.getLocation();

        ConditionalPermissionAdmin admin = getConditionalPermissionAdmin(context);
        ConditionalPermissionInfo permInfo =
            admin.newConditionalPermissionInfo("permission-01",
                new ConditionInfo[]{
                    new ConditionInfo(BundleLocationCondition.class.getName(), new

```

```

String[]{"fpp"}),
        },
        new PermissionInfo[]{
            new PermissionInfo(AllPermission.class.getName(), "", "")
//            new PermissionInfo(PackagePermission.class.getName(), "*",
PackagePermission.IMPORT),
//            new PermissionInfo(PackagePermission.class.getName(), "*",
PackagePermission.EXPORTONLY)
        },
        ConditionalPermissionInfo.DENY);
ConditionalPermissionUpdate update = admin.newConditionalPermissionUpdate();
update.getConditionalPermissionInfos().add(permInfo);
try {
    System.out.println(update.commit());
} catch (Exception e) {
    e.printStackTrace();
}

//    admin.setPermissions(
//        bundleLocation,
//        new PermissionInfo[]{
//            new PermissionInfo(
//                PackagePermission.class.getName(), "*", PackagePermission.IMPORT),
//            new PermissionInfo(
//                PropertyPermission.class.getName(), "user.home", "read"),
//            new PermissionInfo(
//                FilePermission.class.getName(), file.getAbsolutePath(), "read"),
////            new PermissionInfo(
////                ServicePermission.class.getName(),
"org.eclipse.osgi.service.environment.EnvironmentInfo", ServicePermission.GET)
//        });
//    }*/
//    }*/

/*private ConditionalPermissionAdmin getConditionalPermissionAdmin(BundleContext context) {
    return (ConditionalPermissionAdmin) context.
        getService(context.getServiceReference(ConditionalPermissionAdmin.class.getName()));
}*/
}

```

1.771 org.wso2.carbon.p2.touchpoint 4.2.0

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1.772 org.wso2.carbon.policyeditor 4.2.0

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-->
<files>
  <file>ws-policy.xsd</file>
  <file>ws-securitypolicy.xsd</file>
  <file>wsrm-policy.xsd</file>
  <file>wssecurity-secext-1.0.xsd</file>
  <file>wssecurity-utility-1.0.xsd</file>
</files>
<?xml version="1.0" encoding="UTF-8"?>
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-->

<xs:schema

```
targetNamespace="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:tns="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
elementFormDefault="qualified"
blockDefault="#all">
```

</xs:import

```

namespace="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
schemaLocation="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"/>

<xs:import
  namespace="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  schemaLocation="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"/>

<!-- //////////// WS-Policy //////////// -->

<xs:element name="Policy">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="tns:OperatorContentType">
        <xs:attribute name="Name" type="xs:anyURI"/>
        <xs:attribute ref="wsu:Id"/>
        <xs:anyAttribute namespace="##any" processContents="lax"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="All" type="tns:OperatorContentType"/>
<xs:element name="ExactlyOne" type="tns:OperatorContentType"/>

<xs:complexType name="OperatorContentType">
  <xs:sequence>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:element ref="tns:Policy"/>
      <xs:element ref="tns:All"/>
      <xs:element ref="tns:ExactlyOne"/>
      <xs:element ref="tns:PolicyReference"/>
      <xs:any namespace="##other" processContents="lax"/>
    </xs:choice>
  </xs:sequence>
</xs:complexType>

<xs:element name="PolicyReference">
  <xs:complexType>
    <xs:attribute name="URI" type="xs:anyURI" use="required"/>
    <xs:attribute name="Digest" type="xs:base64Binary"/>
    <xs:attribute name="DigestAlgorithm"
      type="xs:anyURI"
      default="http://schemas.xmlsoap.org/ws/2004/09/policy/Sha1Exc"
    />
    <xs:anyAttribute namespace="##any" processContents="lax"/>
  </xs:complexType>
</xs:element>

<xs:attribute name="Optional" type="xs:boolean" default="false"/>

```

```

<!-- ////////// WS-PolicyAttachment ////////// -->

<xs:attribute name="PolicyURIs">
  <xs:simpleType>
    <xs:list itemType="xs:anyURI"/>
  </xs:simpleType>
</xs:attribute>

<xs:element name="PolicyAttachment">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="tns:AppliesTo"/>
      <xs:choice maxOccurs="unbounded">
        <xs:element ref="tns:Policy"/>
        <xs:element ref="tns:PolicyReference"/>
      </xs:choice>
      <!-- omitted only because it causes the content model to be non-deterministic
        <xs:element ref="wsse:Security" minOccurs="0" />
      -->
      <xs:any namespace="##other"
        processContents="lax"
        minOccurs="0"
        maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:anyAttribute namespace="##any" processContents="lax"/>
  </xs:complexType>
</xs:element>

<xs:element name="AppliesTo">
  <xs:complexType>
    <xs:sequence>
      <xs:any namespace="##any"
        processContents="lax"
        maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:anyAttribute namespace="##any" processContents="lax"/>
  </xs:complexType>
</xs:element>

</xs:schema>
<?xml version="1.0" encoding="UTF-8"?>
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```

-->
<xs:schema
  targetNamespace="http://schemas.xmlsoap.org/ws/2005/02/rm/policy"
  xmlns:tns="http://schemas.xmlsoap.org/ws/2005/02/rm/policy"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified"
  attributeFormDefault="unqualified" >

  <xs:element name="RMAssertion" >
    <xs:complexType>
      <xs:sequence>
        <xs:element name="InactivityTimeout" minOccurs="0" >
          <xs:complexType>
            <xs:attribute name="Milliseconds"
              type="xs:unsignedLong"
              use="required" />
            <xs:anyAttribute namespace="##any" processContents="lax" />
          </xs:complexType>
        </xs:element>
        <xs:element name="BaseRetransmissionInterval" minOccurs="0">
          <xs:complexType>
            <xs:attribute name="Milliseconds"
              type="xs:unsignedLong"
              use="required" />
            <xs:anyAttribute namespace="##any" processContents="lax" />
          </xs:complexType>
        </xs:element>
        <xs:element name="ExponentialBackoff" minOccurs="0" >
          <xs:complexType>
            <xs:anyAttribute namespace="##any" processContents="lax" />
          </xs:complexType>
        </xs:element>
        <xs:element name="AcknowledgementInterval" minOccurs="0" >
          <xs:complexType>
            <xs:attribute name="Milliseconds"
              type="xs:unsignedLong"
              use="required" />
            <xs:anyAttribute namespace="##any" processContents="lax" />
          </xs:complexType>
        </xs:element>
        <xs:any namespace="##other"
          processContents="lax"
          minOccurs="0"
          maxOccurs="unbounded" />
      </xs:sequence>
      <xs:anyAttribute namespace="##any" processContents="lax" />
    </xs:complexType>
  </xs:element>

```

```

</xs:schema>
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-->
<?xml version="1.0" encoding="utf-8" ?>
<xs:schema
targetNamespace="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy"
  xmlns:tns="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy"
  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified"
  blockDefault="#all" >

  <xs:import namespace="http://schemas.xmlsoap.org/ws/2004/08/addressing"
    schemaLocation="http://schemas.xmlsoap.org/ws/2004/08/addressing" />

  <xs:import namespace="http://schemas.xmlsoap.org/ws/2004/09/policy"
    schemaLocation="http://schemas.xmlsoap.org/ws/2004/09/policy/ws-policy.xsd" />

  <!--
5. Protection Assertions
-->
<xs:element name="SignedParts" type="tns:SePartsType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      5.1.1 SignedParts Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="EncryptedParts" type="tns:SePartsType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">

```

5.2.1 EncryptedParts Assertion

```
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:complexType name="SePartsType">
  <xs:sequence>
    <xs:element name="Body" type="tns:EmptyType" minOccurs="0" />
    <xs:element name="Header" type="tns:HeaderType" minOccurs="0" maxOccurs="unbounded" />
    <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##other" processContents="lax"/>
  </xs:sequence>
  <xs:anyAttribute namespace="##any" processContents="lax" />
</xs:complexType>
<xs:complexType name="EmptyType" />
<xs:complexType name="HeaderType" >
  <xs:attribute name="Name" type="xs:QName" use="optional" />
  <xs:attribute name="Namespace" type="xs:anyURI" use="required" />
  <xs:anyAttribute namespace="##any" processContents="lax" />
</xs:complexType>
```

```
<xs:element name="SignedElements" type="tns:SerElementsType" >
```

```
<xs:annotation>
  <xs:documentation xml:lang="en" >
```

5.1.2 SignedElements Assertion

```
</xs:documentation>
</xs:annotation>
</xs:element>
```

```
<xs:element name="EncryptedElements" type="tns:SerElementsType" >
```

```
<xs:annotation>
  <xs:documentation xml:lang="en">
```

5.2.2 EncryptedElements Assertion

```
</xs:documentation>
</xs:annotation>
</xs:element>
```

```
<xs:element name="RequiredElements" type="tns:SerElementsType" >
```

```
<xs:annotation>
  <xs:documentation xml:lang="en" >
```

5.3.1 RequiredElements Assertion

```
</xs:documentation>
</xs:annotation>
</xs:element>
```

```
<xs:complexType name="SerElementsType">
```

```
<xs:sequence>
  <xs:element name="XPath" type="xs:string" minOccurs="1" maxOccurs="unbounded" />
  <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##other" processContents="lax"/>
</xs:sequence>
  <xs:attribute name="XPathVersion" type="xs:anyURI" use="optional" />
  <xs:anyAttribute namespace="##any" processContents="lax" />
</xs:complexType>
```



```

<!--
6. Token Assertions
-->
<xs:attribute name="IncludeToken" type="tns:IncludeTokenOpenType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.1 Token Inclusion
    </xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:simpleType name="IncludeTokenOpenType">
  <xs:union memberTypes="tns:IncludeTokenType xs:anyURI" />
</xs:simpleType>
<xs:simpleType name="IncludeTokenType">
  <xs:restriction base="xs:anyURI" >
    <xs:enumeration value="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never" />
    <xs:enumeration value="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Once" />
    <xs:enumeration value="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient"
  />
  <xs:enumeration value="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Always" />
</xs:restriction>
</xs:simpleType>

<xs:element name="UsernameToken" type="tns:TokenAssertionType" >
  <xs:annotation>
    <xs:documentation xml:lang="en" >
      6.3.1 UsernameToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:complexType name="TokenAssertionType">
  <xs:sequence>
    <!--
    *** Accurate content model is nondeterministic ***
    <xs:element ref="wsp:Policy" minOccurs="0" />
    -->
    <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##other" processContents="lax"/>
  </xs:sequence>
  <xs:attribute ref="tns:IncludeToken" use="optional" />
  <xs:anyAttribute namespace="##any" processContents="lax" />
</xs:complexType>

<xs:element name="WssUsernameToken10" type="tns:QNameAssertionType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.1 UsernameToken Assertion
    </xs:documentation>

```

```

</xs:annotation>
</xs:element>
<xs:element name="WssUsernameToken11" type="tns:QNameAssertionType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.1 UsernameToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:complexType name="QNameAssertionType">
  <xs:anyAttribute namespace="##any" processContents="lax" />
</xs:complexType>

<xs:element name="IssuedToken" type="tns:IssuedTokenType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.2 IssuedToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:complexType name="IssuedTokenType">
  <xs:sequence>
    <xs:element name="Issuer" type="wsa:EndpointReferenceType" minOccurs="0" />
    <xs:element name="RequestSecurityTokenTemplate" type="tns:RequestSecurityTokenTemplateType" />
    <!--
    *** Accurate content model is nondeterministic ***
    <xs:element ref="wsp:Policy" minOccurs="0" />
    -->
    <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##other" processContents="lax" />
  </xs:sequence>
  <xs:attribute ref="tns:IncludeToken" use="optional" />
  <xs:anyAttribute namespace="##any" processContents="lax" />
</xs:complexType>
<xs:complexType name="RequestSecurityTokenTemplateType">
  <xs:sequence>
    <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##other" processContents="lax" />
  </xs:sequence>
  <xs:attribute name="TrustVersion" type="xs:anyURI" use="optional" />
  <xs:anyAttribute namespace="##any" processContents="lax" />
</xs:complexType>

<xs:element name="RequireDerivedKeys" type="tns:QNameAssertionType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.2 IssuedToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

```

```

<xs:element name="RequireExternalReference" type="tns:QNameAssertionType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.2 IssuedToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="RequireInternalReference" type="tns:QNameAssertionType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.2 IssuedToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="X509Token" type="tns:TokenAssertionType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.3 X509Token Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="RequireKeyIdentifierReference" type="tns:QNameAssertionType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.3 X509Token Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="RequireIssuerSerialReference" type="tns:QNameAssertionType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.3 X509Token Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="RequireEmbeddedTokenReference" type="tns:QNameAssertionType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.3 X509Token Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="RequireThumbprintReference" type="tns:QNameAssertionType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.3 X509Token Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

```

```

</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="WssX509V1Token10" type="tns:QNameAssertionType" >
<xs:annotation>
<xs:documentation xml:lang="en">
6.3.3 X509Token Assertion
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="WssX509V3Token10" type="tns:QNameAssertionType" >
<xs:annotation>
<xs:documentation xml:lang="en">
6.3.3 X509Token Assertion
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="WssX509Pkcs7Token10" type="tns:QNameAssertionType" >
<xs:annotation>
<xs:documentation xml:lang="en">
6.3.3 X509Token Assertion
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="WssX509PkiPathV1Token10" type="tns:QNameAssertionType" >
<xs:annotation>
<xs:documentation xml:lang="en">
6.3.3 X509Token Assertion
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="WssX509V1Token11" type="tns:QNameAssertionType" >
<xs:annotation>
<xs:documentation xml:lang="en">
6.3.3 X509Token Assertion
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="WssX509V3Token11" type="tns:QNameAssertionType" >
<xs:annotation>
<xs:documentation xml:lang="en">
6.3.3 X509Token Assertion
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="WssX509Pkcs7Token11" type="tns:QNameAssertionType" >
<xs:annotation>
<xs:documentation xml:lang="en">

```

```

        6.3.3 X509Token Assertion
    </xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="WssX509PkiPathV1Token11" type="tns:QNameAssertionType" >
    <xs:annotation>
        <xs:documentation xml:lang="en">
            6.3.3 X509Token Assertion
        </xs:documentation>
    </xs:annotation>
</xs:element>

<xs:element name="KerberosToken" type="tns:TokenAssertionType" >
    <xs:annotation>
        <xs:documentation xml:lang="en">
            6.3.4 KerberosToken Assertion
        </xs:documentation>
    </xs:annotation>
</xs:element>
<!-- RequireDerivedKeys defined above. -->
<!-- RequireKeyIdentifierReference defined above. -->

<xs:element name="WssKerberosV5ApReqToken11" type="tns:QNameAssertionType" >
    <xs:annotation>
        <xs:documentation xml:lang="en">
            6.3.4 KerberosToken Assertion
        </xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="WssGssKerberosV5ApReqToken11" type="tns:QNameAssertionType" >
    <xs:annotation>
        <xs:documentation xml:lang="en">
            6.3.4 KerberosToken Assertion
        </xs:documentation>
    </xs:annotation>
</xs:element>

<xs:element name="SpnegoContextToken" type="tns:SpnegoContextTokenType" >
    <xs:annotation>
        <xs:documentation xml:lang="en" >
            6.3.5 SpnegoContextToken Assertion
        </xs:documentation>
    </xs:annotation>
</xs:element>
<xs:complexType name="SpnegoContextTokenType">
    <xs:sequence>
        <xs:element name="Issuer" type="wsa:EndpointReferenceType" minOccurs="0" />
    </xs:sequence>
</xs:complexType>
<!--

```

```

*** Accurate content model is nondeterministic ***
<xs:element ref="wsp:Policy" minOccurs="0" />
-->
<xs:any minOccurs="0" maxOccurs="unbounded" namespace="##other" processContents="lax" />
</xs:sequence>
<xs:attribute ref="tns:IncludeToken" use="optional" />
<xs:anyAttribute namespace="##any" processContents="lax" />
</xs:complexType>
<!-- RequireDerivedKeys defined above. -->

<xs:element name="SecurityContextToken" type="tns:TokenAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.6 SecurityContextToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<!-- RequireDerivedKeys defined above. -->

<xs:element name="RequireExternalUriReference" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.6 SecurityContextToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="SC10SecurityContextToken" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.6 SecurityContextToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="SecureConversationToken" type="tns:SecureConversationTokenType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.7 SecureConversationToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:complexType name="SecureConversationTokenType">
  <xs:sequence>
    <xs:element name="Issuer" type="wsa:EndpointReferenceType" minOccurs="0" />
    <!--
*** Accurate content model is nondeterministic ***
<xs:element ref="wsp:Policy" minOccurs="0" />
-->

```

```

<xs:any minOccurs="0" maxOccurs="unbounded" namespace="##other" processContents="lax" />
</xs:sequence>
<xs:attribute ref="tns:IncludeToken" use="optional" />
<xs:anyAttribute namespace="##any" processContents="lax" />
</xs:complexType>
<!-- RequireDerivedKeys defined above. -->
<!-- RequireExternalUriReference defined above. -->
<!-- SC10SecurityContextToken defined above. -->

<xs:element name="BootstrapPolicy" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.7 SecureConversationToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="SamlToken" type="tns:TokenAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en" >
      6.3.8 SamlToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<!-- RequireDerivedKeys defined above. -->
<!-- RequireKeyIdentifierReference defined above. -->

<xs:element name="WssSamlV10Token10" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.8 SamlToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="WssSamlV11Token10" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.8 SamlToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="WssSamlV10Token11" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.8 SamlToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

```

```

<xs:element name="WssSamlV11Token11" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.8 SamlToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="WssSamlV20Token11" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.8 SamlToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="RelToken" type="tns:TokenAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.9 RelToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<!-- RequireDerivedKeys defined above. -->
<!-- RequireKeyIdentifierReference defined above. -->

<xs:element name="WssRelV10Token10" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.9 RelToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="WssRelV20Token10" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.9 RelToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="WssRelV10Token11" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.9 RelToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="WssRelV20Token11" type="tns:QNameAssertionType">
  <xs:annotation>

```



```

<xs:documentation xml:lang="en">
  6.3.9 RelToken Assertion
</xs:documentation>
</xs:annotation>
</xs:element>

<xs:element name="HttpsToken" type="tns:HttpsTokenType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      6.3.10 HttpsToken Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:complexType name="HttpsTokenType">
  <xs:sequence>
    <!--
    *** Accurate content model is nondeterministic ***
    <xs:element ref="wsp:Policy" minOccurs="0" />
    -->
    <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##other" processContents="lax"/>
  </xs:sequence>
  <xs:attribute name="RequireClientCertificate" type="xs:boolean" use="required" />
  <xs:anyAttribute namespace="##any" processContents="lax" />
</xs:complexType>

<!--
8. Security Binding Assertions
-->
<xs:element name="AlgorithmSuite" type="tns:NestedPolicyType" >
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:complexType name="NestedPolicyType">
  <xs:sequence>
    <xs:element ref="wsp:Policy" />
    <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##other" processContents="lax"/>
  </xs:sequence>
  <xs:anyAttribute namespace="##any" processContents="lax" />
</xs:complexType>

<xs:element name="Basic256" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>

```

```

</xs:annotation>
</xs:element>
<xs:element name="Basic192" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Basic128" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="TripleDes" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Basic256Rsa15" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Basic192Rsa15" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Basic128Rsa15" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="TripleDesRsa15" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>

```

```

</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="Basic256Sha256" type="tns:QNameAssertionType">
<xs:annotation>
<xs:documentation xml:lang="en">
8.1 AlgorithmSuite Assertion
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="Basic192Sha256" type="tns:QNameAssertionType">
<xs:annotation>
<xs:documentation xml:lang="en">
8.1 AlgorithmSuite Assertion
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="Basic128Sha256" type="tns:QNameAssertionType">
<xs:annotation>
<xs:documentation xml:lang="en">
8.1 AlgorithmSuite Assertion
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="TripleDesSha256" type="tns:QNameAssertionType">
<xs:annotation>
<xs:documentation xml:lang="en">
8.1 AlgorithmSuite Assertion
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="Basic256Sha256Rsa15" type="tns:QNameAssertionType">
<xs:annotation>
<xs:documentation xml:lang="en">
8.1 AlgorithmSuite Assertion
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="Basic192Sha256Rsa15" type="tns:QNameAssertionType">
<xs:annotation>
<xs:documentation xml:lang="en">
8.1 AlgorithmSuite Assertion
</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="Basic128Sha256Rsa15" type="tns:QNameAssertionType">
<xs:annotation>
<xs:documentation xml:lang="en">

```

```

    8.1 AlgorithmSuite Assertion
  </xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="TripleDesSha256Rsa15" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="InclusiveC14N" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="SOAPNormalization10" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="STRTransform10" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="XPathFilter20" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.1 AlgorithmSuite Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="Layout" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.2 Layout Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

```

```

<xs:element name="Strict" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.2 Layout Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Lax" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.2 Layout Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="LaxTsFirst" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.2 Layout Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="LaxTsLast" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.2 Layout Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="TransportBinding" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.3 TransportBinding Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="TransportToken" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.3 TransportBinding Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<!-- AlgorithmSuite defined above. -->
<!-- Layout defined above. -->

<xs:element name="IncludeTimestamp" type="tns:QNameAssertionType">

```

```

<xs:annotation>
  <xs:documentation xml:lang="en">
    8.3 TransportBinding Assertion
  </xs:documentation>
</xs:annotation>
</xs:element>
<!-- RequireDerivedKeys defined above. -->

<xs:element name="SymmetricBinding" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.4 SymmetricBinding Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="EncryptionToken" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.4 SymmetricBinding Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="SignatureToken" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.4 SymmetricBinding Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="ProtectionToken" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.4 SymmetricBinding Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<!-- AlgorithmSuite defined above. -->
<!-- Layout defined above. -->
<!-- IncludeTimestamp defined above. -->

<xs:element name="EncryptBeforeSigning" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.4 SymmetricBinding Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="EncryptSignature" type="tns:QNameAssertionType">

```

```

<xs:annotation>
  <xs:documentation xml:lang="en">
    8.4 SymmetricBinding Assertion
  </xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="ProtectTokens" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.4 SymmetricBinding Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<!-- RequireDerivedKeys defined above. -->
<xs:element name="OnlySignEntireHeadersAndBody" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.4 SymmetricBinding Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="AsymmetricBinding" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.5 AsymmetricBinding Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="InitiatorToken" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.5 AsymmetricBinding Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="RecipientToken" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      8.5 AsymmetricBinding Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<!-- AlgorithmSuite defined above. -->
<!-- Layout defined above. -->
<!-- IncludeTimestamp defined above. -->

```

```

<!-- EncryptBeforeSigning defined above. -->
<!-- EncryptSignature defined above. -->
<!-- ProtectTokens defined above. -->
<!-- RequireDerivedKeys defined above. -->
<!-- OnlySignEntireHeadersAndBody defined above. -->

<!--
9. Supporting Tokens
-->
<xs:element name="SupportingTokens" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      9.1 SupportingTokens Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<!-- AlgorithmSuite defined above. -->
<!-- SignedParts defined above. -->
<!-- SignedElements defined above. -->
<!-- EncryptedParts defined above. -->
<!-- EncryptedElements defined above. -->

<xs:element name="SignedSupportingTokens" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      9.2 SignedSupportingTokens Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<!-- AlgorithmSuite defined above. -->
<!-- SignedParts defined above. -->
<!-- SignedElements defined above. -->
<!-- EncryptedParts defined above. -->
<!-- EncryptedElements defined above. -->

<xs:element name="EndorsingSupportingTokens" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      9.3 EndorsingSupportingTokens Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<!-- AlgorithmSuite defined above. -->
<!-- SignedParts defined above. -->
<!-- SignedElements defined above. -->
<!-- EncryptedParts defined above. -->
<!-- EncryptedElements defined above. -->

```



```

<xs:element name="SignedEndorsingSupportingTokens" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      9.4 SignedEndorsingSupportingTokens Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<!-- AlgorithmSuite defined above. -->
<!-- SignedParts defined above. -->
<!-- SignedElements defined above. -->
<!-- EncryptedParts defined above. -->
<!-- EncryptedElements defined above. -->

<!--
10. WSS: SOAP Message Security Options
-->
<xs:element name="Wss10" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      10.1 Wss10 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="MustSupportRefKeyIdentifier" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      10.1 Wss10 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="MustSupportRefIssuerSerial" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      10.1 Wss10 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="MustSupportRefExternalURI" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      10.1 Wss10 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="MustSupportRefEmbeddedToken" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">

```

```

    10.1 Wss10 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="Wss11" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      10.2 Wss11 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<!-- MustSupportRefKeyIdentifier defined above. -->
<!-- MustSupportRefIssuerSerial defined above. -->
<!-- MustSupportRefExternalURI defined above. -->
<!-- MustSupportRefEmbeddedToken defined above. -->

<xs:element name="MustSupportRefThumbprint" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      10.2 Wss11 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="MustSupportRefEncryptedKey" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      10.2 Wss11 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="RequireSignatureConfirmation" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      10.2 Wss11 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<!--
11. WS-Trust Options
-->
<xs:element name="Trust10" type="tns:NestedPolicyType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      11.1 Trust10 Assertion
    </xs:documentation>
  </xs:annotation>

```

```

</xs:element>

<xs:element name="MustSupportClientChallenge" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      11.1 Trust10 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="MustSupportServerChallenge" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      11.1 Trust10 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="RequireClientEntropy" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      11.1 Trust10 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="RequireServerEntropy" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      11.1 Trust10 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="MustSupportIssuedTokens" type="tns:QNameAssertionType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      11.1 Trust10 Assertion
    </xs:documentation>
  </xs:annotation>
</xs:element>

</xs:schema>
/*
* Copyright 2005-2007 WSO2, Inc. (http://wso2.com)
*
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* you may not use this file except in compliance with the License.
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*

```

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/

```
package org.wso2.carbon.policyeditor;

import org.apache.axis2.AxisFault;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.xml.serialize.OutputFormat;
import org.apache.xml.serialize.XMLSerializer;
import org.w3c.dom.Document;

import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import java.io.BufferedReader;
import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.net.URL;

public class PolicyEditorService {

    private static final Log log = LogFactory.getLog(PolicyEditorService.class);

    // The location of the XSD file resources
    private static final String ORG_WSO2_CARBON_POLICYEDITOR_XSD =
        "/org/wso2/carbon/policyeditor/xsd/";

    /**
     * Retrieves a Policy document from a given URL
     *
     * @param policyURL
     * @return A CDATA Wrapped Policy document if found
     * @throws AxisFault
     */
    public String getPolicyDoc(String policyURL) throws AxisFault {
        String policy = "";

        // Open a stream to the policy file using the URL.
        try {
```

```

URL url = new URL(policyURL);

InputStream in = url.openStream();
BufferedReader dis =
    new BufferedReader(new InputStreamReader(in));
StringBuilder fBuf = new StringBuilder();

String line = "";
while ((line = dis.readLine()) != null) {
    fBuf.append(line).append("\n");
}
in.close();

policy = fBuf.toString();
}
catch (IOException e) {
    throw new AxisFault(e.getMessage());
}

return "<![CDATA[" + policy + "]]>";
}

/**
 * Retrieves content from a named schema file bundled as a resource.
 *
 * @param fileName
 * @return
 * @throws AxisFault
 */
public String getSchema(String fileName) throws AxisFault {
    String schema = "";

    StringBuffer fBuf = null;
    try {
        InputStream in = PolicyEditorService.class.getResourceAsStream(
            ORG_WSO2_CARBON_POLICYEDITOR_XSD + fileName);

        BufferedReader dis =
            new BufferedReader(new InputStreamReader(in));
        fBuf = new StringBuffer();

        String line = "";
        while ((line = dis.readLine()) != null) {
            fBuf.append(line).append("\n");
        }
        in.close();
    }
}

```

```

        schema = fBuf.toString();
    } catch (IOException e) {
        throw new AxisFault(e.getMessage());
    }

    return "<![CDATA[" + schema + "]]>";
}

/**
 * Returns a list of bundled shema (XSD) file names
 *
 * @return A file name list
 * @throws AxisFault
 */
public String getAvailableSchemas() throws AxisFault {
    String fileList = "";

    StringBuffer fBuf = null;
    try {
        InputStream in = PolicyEditorService.class.getResourceAsStream(
            "ORG_WSO2_CARBON_POLICYEDITOR_XSD + "policies.xml");

        BufferedReader dis =
            new BufferedReader(new InputStreamReader(in));
        fBuf = new StringBuffer();

        String line = "";
        while ((line = dis.readLine()) != null) {
            fBuf.append(line).append("\n");
        }
        in.close();

        fileList = fBuf.toString();
    } catch (IOException e) {
        throw new AxisFault(e.getMessage());
    }

    return "<![CDATA[" + fileList + "]]>";
}

/**
 * Formats a given unformatted XML string
 *
 * @param xml
 * @return A CDATA wrapped, formatted XML String
 */
public String formatXML(String xml) {

```

```

try {
    DocumentBuilderFactory docFactory = DocumentBuilderFactory.newInstance();
    DocumentBuilder docBuilder = docFactory.newDocumentBuilder();
    Document xmlDoc = docBuilder.parse(new ByteArrayInputStream(xml.getBytes()));

    OutputFormat format = new OutputFormat(xmlDoc);
    format.setLineWidth(0);
    format.setIndenting(true);
    format.setIndent(2);
    ByteArrayOutputStream baos = new ByteArrayOutputStream();
    XMLSerializer serializer = new XMLSerializer(baos, format);
    serializer.serialize(xmlDoc);

    xml = baos.toString();

} catch (Exception e) {
    log.error(e);
}

return "<![CDATA[" + xml + "]]>";
}
}

```

1.773 org.wso2.carbon.policyeditor.ui 4.2.0

1.773.1 Available under license :

```

/*
 * Copyright 2005,2006 WSO2, Inc. http://wso2.com
 *
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

var lastUsedServiceId = "";
var lastUsedServiceVersion = "";

```

```

/**
 * Retrieves a Policy using a given URL
 *
 * @param url
 */
function getPolicyDoc(url) {

    var policyDoc = removeCDATA(PolicyEditorService.getPolicyDoc(url));
    syncRawPolicyView(policyDoc);
    buildTreeView(policyDoc);
}

/**
 * Retrieves a list of available Policy Schemas (XSDs) from the backend
 */
function getPolicSchemaDefs() {

    var schemaFilesList = removeCDATA(PolicyEditorService.getAvailableSchemas());

    var domParser = new DOMImplementation();
    var fileListXML = domParser.loadXML(schemaFilesList);

    var fileList = fileListXML.getElementsByTagName("file");
    for (var x = 0; x < fileList.length; x++) {
        // Retrieving policy XSDs
        var schemaDoc =
removeCDATA(PolicyEditorService.getSchema(fileList.item(x).firstChild.nodeValue.toString()));
        storeSchema(schemaDoc);
    }

    buildPolicyMenu();
}

/**
 * Utility function to remove CDATA tags from a response
 *
 * @param candidateString
 */
function removeCDATA(candidateString)
{
    //Verify whether this is a CDATA string
    if (candidateString.substring(0, 9) == "<![CDATA[") {
        //Removing <![CDATA[
        candidateString = candidateString.substring(9, candidateString.length);
        //Removing ]]>
        candidateString = candidateString.substring(0, candidateString.length - 3);
    }
}

```



```

    } else if (candidateString.substring(0, 12) == "&lt;![CDATA[") {
        //Removing &lt;![CDATA[
        candidateString = candidateString.substring(12, candidateString.length);
        //Removing ]&lt;
        candidateString = candidateString.substring(0, candidateString.length - 6);
    }

    return candidateString;
}

/**
 * Synchronizes the Raw Policy (Text) view using the changes done to the in-memory policy document
 *
 * @param policyDocument
 */
function syncRawPolicyView(policyDocument) {

    var rawPolicyTextArea = document.getElementById("raw-policy");

    if (policyDocument.indexOf(">") > -1) {
        policyDocument = policyDocument.substring(policyDocument.indexOf(">") + 2);
    }

    try {
        var parser = new DOMImplementation();
        currentPolicyDoc = parser.loadXML(policyDocument);

        var browser = WSRequest.util._getBrowser();
        if (browser == "gecko") {
            // Gecko has inbuilt E4X. This formats XML nicely
            editAreaLoader.setValue("raw-policy", "" + new XML(policyDocument));
        } else {
            // There's no known way to format in the client side. Sending to the backend
            formatXMLUsingService(policyDocument);
        }

        if (editAreaLoader.getValue("raw-policy") == "") {
            editAreaLoader.setValue("raw-policy", '<wsp:Policy
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy" />');
        }
    } catch(e) {
        //alert("Failed to parse the policy XML. Please check. [" + e.toString() + "]");
        editAreaLoader.setValue("raw-policy", "" + policyDocument);
    }
}

/**
 * Formats a given XML using the backend service

```

```

*
* @param xml
*/
function formatXMLUsingService(xml) {
    editAreaLoader.setValue("raw-policy",removeCDATA(PolicyEditorService.formatXML(xml)));
}

/**
* Synchronizes the Policy Tree using the in-memory Policy document
*
*/
function syncPolicyTreeView() {
    var rawPolicy = editAreaLoader.getValue("raw-policy");

    if (rawPolicy.indexOf(">") > -1) {
        rawPolicy = rawPolicy.substring(rawPolicy.indexOf(">") + 2);
    }

    buildTreeView(rawPolicy);
}

/**
* Generates HTML UI elements required to gather input from the user in order to add/update
* an element.
*
* @param targetElement - To which elements the updations should be committed to
* @param schemaElement - The remplate schema element to use to generate the UI
* @param namespaceURI - The namespace URI to use for the new element
* @param mode - Mode can be either 'add' or 'edit'
*/
function generateGathererUI(targetElement, schemaElement, namespaceURI, mode) {
    // Store the target element globally
    currentUITargetElement = targetElement;

    var actionName = "";
    if (mode == "add") {
        actionName = jsi18n["adding.new.element"] + " ";
    } else if (mode == "edit") {
        actionName = jsi18n["editing.element"] + " ";
    }

    var prefix = schemaElement.prefix;

    // Start processing the attributes
    var elementAttributes = schemaElement.getElementsByTagName(prefix + ":attribute");

    if (elementAttributes.length > 0) {

```

```

var uiHTML = "<div id='element-attrs'><table><tr><th>" + actionName +
    schemaElement.getAttribute("name") +
    "</th></tr>";

for (var x = 0; x < elementAttributes.length; x++) {

    var attrbuteName = elementAttributes.item(x).getAttribute("name");
    if (attrbuteName != undefined) {
        uiHTML = uiHTML + "<tr><td>" + attrbuteName + "</td>";

        var attributeType = elementAttributes.item(x).getAttribute("type");
        if ((attributeType == prefix + ":anyURI") || (attributeType == prefix + ":float") ||
            (attributeType == prefix + ":decimal") ||
            (attributeType == prefix + ":double") ||
            (attributeType == prefix + ":QName") ||
            (attributeType == prefix + ":base64Binary") ||
            (attributeType == prefix + ":integer")) {

            // decide what to put as the default value
            var defaultVal = "";
            if (mode == "add") {
                defaultVal = elementAttributes.item(x).getAttribute("default");
                if (defaultVal == undefined) {
                    defaultVal = attributeType;
                }
            } else if (mode == "edit") {
                // In this case, the default value should be whatever is already there
                try {
                    defaultVal =
                        targetElement.getAttributes().getNamedItem(attrbuteName).getNodeValue();
                } catch(ex) {
                }
            }
            // Display a Text Box to collect data
            uiHTML =
                uiHTML + "<td><input id = '" + attrbuteName + "' type='text' value='" +
                defaultVal +
                "'/></td></tr>";
        } else if (attributeType == prefix + ":date") {
            // This is a date type. The XML date format is "YYYY-MM-DD"
            //todo: Implement with a date-picker component
        }
    }
}

// Add the button panel
uiHTML = uiHTML +
    "</table></div><div id='button-panel'>";

```

```

if (mode == "add") {
    uiHTML = uiHTML +
        "<input id='cmdAddElement' type='button' value='" +
        jsi18n["add.element.to.document"] + "' onclick='createElementFromUIData(\"" +
        schemaElement.getAttribute("name") + "\",\"" +
        namespaceURI + "\");'/>";
} else if (mode == "edit") {
    uiHTML = uiHTML +
        "<input id='cmdEditElement' type='button' value='" + jsi18n["update.element"] +
        "' onclick='updateElementFromUIData();'/>";
}

uiHTML = uiHTML + "</div>";

document.getElementById("divPolicyInputGatherer").innerHTML = uiHTML;

} else {
    document.getElementById("divPolicyInputGatherer").innerHTML =
        jsi18n["the.element"] + " " + schemaElement.getAttribute("name") +
        " " + jsi18n["does.not.have.editable.attributes"];
}
}

/**
 * Updates the current UI target element with inputs from the UI
 */
function updateElementFromUIData() {
    // Collect inputs from UI
    var inputTags = document.getElementById("element-attribs").getElementsByTagName("input");

    // Update the target element
    for (var x = 0; x < inputTags.length; x++) {
        var attributeName = inputTags[x].id;
        var attributeValue = inputTags[x].value;
        // Store the attribute in element
        currentUITargetElement.setAttribute(attributeName, attributeValue);
    }

    // Refresh and sync
    syncRawPolicyView(currentPolicyDoc.toString());
    buildTreeView(currentPolicyDoc.toString());

    CARBON.showInfoDialog(jsi18n["element.updated"]);
}

/**
 * Creates a document element from the data available in the UI

```

```

*
* @param elementName - The tag name of the new element
* @param namespaceURI - Namespace URI to use
*/
function createElementFromUIData(elementName, namespaceURI) {
    var newXMLElement;

    var inputTags = document.getElementById("element-attrs").getElementsByTagName("input");

    // Create the element
    if (namespaceURI != "") {
        var prefix = namespaceMap[namespaceURI];

        if (prefix == undefined) {
            // We need to define a prefix for this URI
            prefix = "poled" + Math.floor(Math.random() * 10001);

            newXMLElement =
                currentPolicyDoc.createElement(prefix + ":" + elementName);
            newXMLElement.setAttribute("xmlns:" + prefix, namespaceURI);

            // Add the new URI to map
            namespaceMap[namespaceURI] = prefix;
        } else {
            newXMLElement =
                currentPolicyDoc.createElement(prefix + ":" + elementName);
        }
    } else {
        newXMLElement =
            currentPolicyDoc.createElement(elementName);
    }

    for (var x = 0; x < inputTags.length; x++) {
        var attributeName = inputTags[x].id;
        var attributeValue = inputTags[x].value;
        // Store the attribute in element
        newXMLElement.setAttribute(attributeName, attributeValue);
    }

    // Append the new element to the document
    currentUITargetElement.appendChild(newXMLElement);

    // Refresh and sync
    syncRawPolicyView(currentPolicyDoc.toString());
    buildTreeView(currentPolicyDoc.toString());

    // Clear UI components
    document.getElementById("divPolicyInputGatherer").innerHTML = "";
}

```

```

}

/**
 * Loads the schema fragment for a named element
 *
 * @param elementName
 */
function getSchemaForElement(elementName) {
    // searching the element array
    for (var x = 0; x < elements.length; x++) {
        if (elements[x].schemaElement.getAttribute("name") == elementName) {
            return elements[x].schemaElement;
        }
    }

    // searching the attributes array
    for (x = 0; x < attributes.length; x++) {
        if (attributes[x].schemaElement.getAttribute("name") == elementName) {
            return attributes[x].schemaElement;
        }
    }

    return null;
}

/**
 * Saves the modified Policy Document using the backend service.
 *
 */
var xt="" ,h3OK=1;
function checkErrorXML(x) {
    xt = ""
    h3OK = 1
    checkXML(x)
}

function checkXML(n)
{
    var l,i,nam
    nam = n.nodeName
    if (nam == "h3")
    {
        if (h3OK == 0)
        {
            return;
        }
        h3OK = 0
    }
}

```

```

    }
    if (nam == "#text")
    {
        xt = xt + n.nodeValue + "\n"
    }
    l = n.childNodes.length
    for (i = 0; i < l; i++)
    {
        checkXML(n.childNodes[i])
    }
}
function validateXML(txt)
{
    // code for IE
    var error = "";
    if (window.ActiveXObject)
    {
        var xmlDoc = new ActiveXObject("Microsoft.XMLDOM");
        xmlDoc.async = "false";
        xmlDoc.loadXML(txt);

        if (xmlDoc.parseError.errorCode != 0)
        {
            txt = "Error Code: " + xmlDoc.parseError.errorCode + "\n";
            txt = txt + "Error Reason: " + xmlDoc.parseError.reason;
            txt = txt + "Error Line: " + xmlDoc.parseError.line;
            error = txt;
        }
    }
    // code for Mozilla, Firefox, Opera, etc.
    else if (document.implementation.createDocument)
    {
        var parser = new DOMParser();
        var text = txt;
        var xmlDoc = parser.parseFromString(text, "text/xml");

        if (xmlDoc.getElementsByTagName("parsererror").length > 0)
        {
            checkErrorXML(xmlDoc.getElementsByTagName("parsererror")[0]);
            error = xt;
        }
    }
    return error;
}
function savePolicyXML() {
    // Ensure the in memory policy is in sync with the UI

```

```

var rawPolicy = editAreaLoader.getValue("raw-policy");
if (rawPolicy.indexOf(">") > -1) {
    rawPolicy = rawPolicy.substring(rawPolicy.indexOf(">") + 2);
}
var error = validateXML(rawPolicy);
if(error!=""){
    CARBON.showErrorDialog(error);
    return;
}

var domParser = new DOMImplementation();
currentPolicyDoc = domParser.loadXML(rawPolicy);

// check whether the root policy was removed
if (currentPolicyDoc.getXML() == "") {
    CARBON.showErrorDialog(jsi18n["policy.content.blank"]);
} else {

    if (currentPolicyURL != "null") {
        var body_xml = '<ns1:savePolicyXMLRequest xmlns:ns1="http://org.wso2.wsf/tools">' +
            '<ns1:url>' + currentPolicyURL + '</ns1:url>' +
            '<ns1:policy>' + currentPolicyDoc.toString() + '</ns1:policy>' +
            '</ns1:savePolicyXMLRequest>';

        var callURL = serviceBaseURL + "PolicyEditorService";

        new wso2.wsf.WSRequest(callURL, "savePolicyXML", body_xml, savePolicyXMLCallback);
    } else if (callbackURL != "") {
        postbackUpdatedPolicy();
    }
}
}

function savePolicyXMLCallback() {

}

/**
 * POSTs an updated Policy document to a given URL via a dynamically generated Form.
 *
 */
function postbackUpdatedPolicy() {
    var formEl = document.getElementById("post-back-form");

    // Break down the call back URL into operation and parameters
    var parts = callbackURL.split("?");
    var endpoint = parts[0];

```



```

formEl.setAttribute("action", endpoint);

var formContentHTML = "";

if (parts.length > 1) {
    var params = parts[1].split("&");
    if (params.length > 0) {
        for (var x = 0; x < params.length; x++) {
            // Break into key and value
            var pair = params[x].split("=");
            var key = pair[0];
            var value = pair[1];

            formContentHTML =
                formContentHTML + "<input type='hidden' name='" + key + "' value='" + value + "'/>"
        }
    }
}

formEl.innerHTML =
formContentHTML + '<input type="hidden" name="policy" id="policy-content"/>';

YAHOO.util.Event.onDOMReady(function() {
    document.getElementById("policy-content").value = currentPolicyDoc.toString();
    document.postbackForm.submit();
});

}

/**
 * Allows the user to return to the page prior to the Policy Editor page.
 *
 */
function goBack() {
    var parts = callbackURL.split("?");
    var backURL = parts[0] + "?";
    var backUrlParams = "";

    if (parts.length > 1) {
        var params = parts[1].split("&");
        if (params.length > 0) {
            for (var x = 0; x < params.length; x++) {
                // Break into key and value
                var pair = params[x].split("=");
                var key = pair[0];
                var value = pair[1];

                if ((key == "serviceName") && (value != "null")) {

```

```

        backUrlParams = key + "=" + value;
        break;
    } else if ((key == "moduleName") && (value != "null")) {
        backURL = "../modulemgt/module_info.jsp?"
        if (backUrlParams != "") {
            backUrlParams = backUrlParams + "&" + key + "=" + value;
        } else {
            backUrlParams = key + "=" + value;
        }
    } else if ((key == "moduleVersion") && (value != "null")) {
        backURL = "../modulemgt/module_info.jsp?"
        if (backUrlParams != "") {
            backUrlParams = backUrlParams + "&" + key + "=" + value;
        } else {
            backUrlParams = key + "=" + value;
        }
    }
}
}
}
}
}

```

```
cleanBreadCrumb();
```

```
// Redirecting to the url
location.href = backURL + backUrlParams;
}
```

```
/**
```

```
* Utility function to create a Cookie
*
* @param name
* @param value
* @param days - How many days before the cookie expires
*/
```

```
function createCookie(name, value, days) {
    if (days) {
        var date = new Date();
        date.setTime(date.getTime() + (days * 24 * 60 * 60 * 1000));
        var expires = "; expires=" + date.toGMTString();
    }
    else var expires = "";
    document.cookie = name + "=" + value + expires + "; path=/";
}

```

```
/**
```

```
* Utility function to read a cookie value
*
* @param name
```

```

*/
function readCookie(name) {
    var nameEQ = name + "=";
    var ca = document.cookie.split(';');
    for (var i = 0; i < ca.length; i++) {
        var c = ca[i];
        while (c.charAt(0) == ' ') c = c.substring(1, c.length);
        if (c.indexOf(nameEQ) == 0) return c.substring(nameEQ.length, c.length);
    }
    return null;
}

/**
 * The breadcrumb behaves weirdly by showing the proxy page. This function removes that by
 * manipulating the breadcrumb cookie.
 */
function cleanBreadcrumb() {
    // Read the existing breadcrumb value
    var breadcrumb = readCookie("current-breadcrumb");

    // Set the new value after removing policy pages
    var newBreadcrumb = breadcrumb.split("*")[0];

    // Workaround for module management page
    var parts = newBreadcrumb.split("%23");
    if (parts.length > 1) {
        if (parts[1].indexOf("policy_editor_proxy") > -1) {
            newBreadcrumb = parts[0] + "%23";
        }
    }

    createCookie("current-breadcrumb", newBreadcrumb);
}

/**
 * Sometimes the ending breadcrumb link is activated, which is unorthodox.
 * Killing the last link to prevent it.
 */
function disableLastBreadcrumbLink() {

    var breadcrumbLinks = document.getElementById("breadcrumb-div").getElementsByTagName("a");
    for (var x = 0; x < breadcrumbLinks.length; x++) {
        var currentLinkText = breadcrumbLinks[x].firstChild.nodeValue;
        if (currentLinkText == "Policy") {
            breadcrumbLinks[x].href = "#";
        }
    }
}

```

```

    }
}
/* javascript pretty printing */
function format_xml(str)
{
    var xml = "";

    // add newlines
    str = str.replace(/(>)(<)(\/*)/g, "$1\r$2$3");

    // add indents
    var pad = 0;
    var indent;
    var node;

    // split the string
    var strArr = str.split("\r");

    // check the various tag states
    for (var i = 0; i < strArr.length; i++) {
        indent = 0;
        node = strArr[i];

        if(node.match(/.+<\w[^>]*>$/)){ //open and closing in the same line
            indent = 0;
        } else if(node.match(/^<\w/)){ // closing tag
            if (pad > 0){pad -= 1;}
        } else if (node.match(/^<\w[^>]*[^\>].*$$/)){ //opening tag
            indent = 1;
        } else
            indent = 0;
        //}

        xml += spaces(pad) + node + "\r";
        pad += indent;
    }
    xml = xml.replace(/(&gt;)/g, ">");
    xml = xml.replace(/(&lt;)/g, "<");
    return xml;
}
/*
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```

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*/

var elements = new Array(); // Stores all the document elements

var attributes = new Array(); // Stores all the document attributes

// Stores supported types from most common simple to complex the UI will only support these types.
// A textbox will appear for unsupported types.
var types = new Array();

var currentTextNode; // Stores the currently selected tree node, who triggered the menu

// Holds the target element of the document with which the UI has to work with
var currentUITargetElement = "";

var schemaCollection = new Array(); // Temporarily holds schemas

// Global variable which holds the context menu
var policyMenu = null;

function storeSchema(schemaDefXML) {
    schemaCollection[schemaCollection.length] = schemaDefXML;
}

function buildPolicyMenu() {

    if (policyMenu == null) {
        // Clear existing arrays
        elements = new Array();
        attributes = new Array();
        types = new Array();

        // Process all stored schemas
        for (var x = 0; x < schemaCollection.length; x++) {
            var schemaDefXML = schemaCollection[x]

            // Clearing unnecessary stuff if present at the beginning
            if (schemaDefXML.indexOf(">") > -1) {
                schemaDefXML = schemaDefXML.substr(schemaDefXML.indexOf(">") + 2);
            }
        }
    }
}

```

```

// instantiate the W3C DOM Parser
var parser = new DOMImplementation();

// load the XML into the parser and get the DOMDocument
try {
    var domDoc = parser.loadXML(schemaDefXML);
    var docRoot = domDoc.getDocumentElement();
    var namespaceURI = getSchemaTargetNamespace(docRoot);
    var currentNode = docRoot.firstChild;

    while (currentNode) {
        var elementLocalName = currentNode.localName;

        if (elementLocalName != "") {
            processNode(currentNode, namespaceURI)
        }

        currentNode = currentNode.nextSibling;
    }
} catch(e) {
    // alert(parser.translateErrCode(e.code));
}

}

// Render the menu with new data
renderPolicyMenu();
}
}

function getSchemaTargetNamespace(documentRoot) {
    return documentRoot.getAttributes().getNamedItem("targetNamespace").getNodeValue().toString();
}

function processNode(node, namespaceURI) {
    var nodeName = node.localName;

    var menuElement = { name: nodeName, namespace: namespaceURI, schemaElement: node };

    if (nodeName == "element") {
        elements[elements.length] = menuElement;
    } else if (nodeName == "attribute") {
        attributes[attributes.length] = menuElement;
    } else if (nodeName == "complexType") {
        types[types.length] = menuElement;
    }
}
}

```

```

function renderPolicyMenu() {

    var menuRootItems = new Array();
    var submenuElements = new Array();
    var submenuAttributes = new Array();

    // Process Elements
    for (var x = 0; x < elements.length; x++) {
        // creating the JSON object for this menu item
        var elMenuItem = {
            text: "\"" + elements[x].schemaElement.getAttribute("name") + "\",
            onclick: { fn: renderInputGatherer, obj: [elements[x].schemaElement, elements[x].namespace] }
        };
        submenuElements[submenuElements.length] = elMenuItem;
    }
    //Creating the Elements sub-menu
    var elSubMenu = {
        text: jsi18n["add.policy.element"],
        url: "#add-element",
        submenu: {
            id: "elements",
            itemdata: submenuElements
        }
    };
    // adding to root menu
    menuRootItems[menuRootItems.length] = elSubMenu;

    // Process Attributes
    for (x = 0; x < attributes.length; x++) {
        // creating the JSON object for this menu item
        var elAttributeItem = {
            text: "\"" + attributes[x].schemaElement.getAttribute("name") + "\",
            onclick: { fn: renderInputGatherer, obj: [attributes[x].schemaElement, attributes[x].namespace] }
        }
        submenuAttributes[submenuAttributes.length] = elAttributeItem;
    }
    //Creating the Elements sub-menu
    var atSubMenu = {
        text: jsi18n["add.policy.attribute"],
        url: "#add-attribute",
        submenu: {
            id: "attributes",
            itemdata: submenuAttributes
        }
    };
    // adding to root menu
    menuRootItems[menuRootItems.length] = atSubMenu;
}

```

```

// Adding the delete menu option
var deleteNode = {
    text: jsi18n["delete.this.element"],
    onclick: { fn: deletePolicyElement }
};
menuRootItems[menuRootItems.length] = deleteNode;

policyMenu = new YAHOO.widget.ContextMenu("policy-menu", {
    trigger: "divPolicyDocTree",
    container: "tab2", // This property has to be set to a parent div, other than the treeview container div for IE to
render properly
    itemdata: menuRootItems,
    lazyload: true
});

/*
    Subscribe to the "contextmenu" event for the element(s)
    specified as the "trigger" for the ContextMenu instance.
*/
policyMenu.subscribe("triggerContextMenu", onTriggerContextMenu);
}

/*
    "contextmenu" event handler for the element(s) that
    triggered the display of the ContextMenu instance - used
    to set a reference to the TextNode instance that triggered
    the display of the ContextMenu instance.
*/
function onTriggerContextMenu(p_oEvent) {

    var oTarget = this.contextEventTarget,
        Dom = YAHOO.util.Dom;

    /*
        Get the TextNode instance that that triggered the
        display of the ContextMenu instance.
    */
    var oTextNode = Dom.hasClass(oTarget, "ygtvlabel") ?
        oTarget : Dom.getAncestorByClassName(oTarget, "ygtvlabel");

    if (oTextNode) {
        currentTextNode = textNodeMap[oTarget.id];
    }
    else {
        // Cancel the display of the ContextMenu instance.
        this.cancel();
    }
}
}

```



```

function deletePolicyElement(p_sType, p_aArgs, p_oValue) {

    //todo add verification before deleting elements

    var docRoot = currentPolicyDoc.getDocumentElement();
    var results = docRoot.getElementsByTagName(currentTextNode.label);

    var targetElement = results.item(0);
    if (results.length > 1) {
        // If there are more than one element, we need to figure out which one of these elements
        // is the correct element using XPath
        targetElement = isolateTargetElement(results, currentTextNode.xpath);
    }

    if (targetElement != null) {
        targetElement.getParentNode().removeChild(targetElement);
        syncRawPolicyView(currentPolicyDoc.toString())
        buildTreeView(currentPolicyDoc.toString());
    }
}

function renderInputGatherer(p_sType, p_aArgs, p_oValue) {
    // Clear existing ui elements
    document.getElementById("divPolicyInputGatherer").innerHTML = "";

    var schemaElement = p_oValue[0];
    var namespaceURI = p_oValue[1];

    var newXMLElement;

    var docRoot = currentPolicyDoc.getDocumentElement();
    var results = docRoot.getElementsByTagName(currentTextNode.label);

    var targetElement = results.item(0);
    if (results.length > 1) {
        // If there are more than one element, we need to figure out which one of these elements
        // is the correct element using XPath
        targetElement = isolateTargetElement(results, currentTextNode.xpath);
    }

    if (targetElement != null) {

        if (schemaElement.getElementsByTagName(schemaElement.prefix + ":attribute").length == 0) {
            // This is just a wrapper element no input from the user is required
            if (namespaceURI != "") {
                var prefix = namespaceMap[namespaceURI];
            }
        }
    }
}

```

```

if (prefix == undefined) {
    // We need to define a prefix for this URI
    prefix = "poled" + Math.floor(Math.random() * 10001);

    newXMLElement =
    currentPolicyDoc.createElement(prefix + ":" +
        schemaElement.getAttribute("name"));
    newXMLElement.setAttribute("xmlns:" + prefix, namespaceURI);

    // Add the new URI to map
    namespaceMap[namespaceURI] = prefix;
} else {
    newXMLElement =
    currentPolicyDoc.createElement(prefix + ":" +
        schemaElement.getAttribute("name"));
}
} else {
    newXMLElement =
    currentPolicyDoc.createElement(schemaElement.getAttribute("name"));
}

targetElement.appendChild(newXMLElement);
syncRawPolicyView(currentPolicyDoc.toString())
buildTreeView(currentPolicyDoc.toString());
} else {
    // This needs a ui to get input. Calling the big guns
    generateGathererUI(targetElement, schemaElement, namespaceURI, "add");
}
}
}
}

```

```

function isolateTargetElement(elementsList, targetXPath) {
    for (var x = 0; x < elementsList.length; x++) {
        if (getElementXPath(elementsList.item(x)) == targetXPath) {
            return elementsList.item(x);
        }
    }
}

```

```

return null;
}

```

```

function getElementXPath(elt)
{
    var path = "";
    for (; elt && elt.nodeType == 1; elt = elt.parentNode)
    {

```

```

    var idx = getElementIdx(elt);
    var xname = elt.tagName;
    if (idx > 1) xname += "[" + idx + "]";
    path = "/" + xname + path;
}

return path;
}

function getElementIdx(elt)
{
    var count = 1;
    for (var sib = elt.previousSibling; sib; sib = sib.previousSibling)
    {
        if (sib.nodeType == 1 && sib.tagName == elt.tagName)    count++
    }

    return count;
}

```

1.774 org.wso2.carbon.priority.executors

4.2.0

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1.775

org.wso2.carbon.priority.executors.stub 4.2.0

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1.776 org.wso2.carbon.priority.executors.ui

4.2.0

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1.777 org.wso2.carbon.proxyadmin 4.2.2

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 */
```

```
package org.wso2.carbon.proxyadmin;
```



```

import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.OMFactory;
import org.apache.axiom.om.OMNamespace;

public class ProxyServicePolicyInfo {

    private String key;
    private String type;
    private String operationName;
    private String operationNS;

    public String getKey() {
        return key;
    }

    public void setKey(String key) {
        this.key = key;
    }

    public String getOperationName() {
        return operationName;
    }

    public void setOperationName(String operationName) {
        this.operationName = operationName;
    }

    public String getOperationNS() {
        return operationNS;
    }

    public void setOperationNS(String operationNS) {
        this.operationNS = operationNS;
    }

    public String getType() {
        return type;
    }

    public void setType(String type) {
        this.type = type;
    }

    public OMElement toOM(OMFactory fac, OMNamespace ns,
        OMNamespace nullNS) throws ProxyAdminException {
        if (key == null) {
            throw new ProxyAdminException("A policy without a key was encountered");
        }
    }
}

```

```

OMElement policyElt = fac.createOMElement("policy", ns);
policyElt.addAttribute("key", key, nullNS);
if (type != null) {
    policyElt.addAttribute("type", type, nullNS);
}

if (operationName != null) {
    policyElt.addAttribute("operationName", operationName, nullNS);
    if (operationNS != null) {
        policyElt.addAttribute("operationNamespace", operationNS, nullNS);
    }
}

return policyElt;
}
}

```

1.778 org.wso2.carbon.proxyadmin.common

4.2.0

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1.779 org.wso2.carbon.proxyadmin.stub 4.2.1

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1.780 org.wso2.carbon.proxyadmin.ui 4.2.0

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<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>
<% @ page import="org.wso2.carbon.proxyadmin.ui.client.ProxyServiceAdminClient" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage" %>
<% @ page import="java.util.ResourceBundle" %>
<% @ page import="org.wso2.carbon.proxyadmin.stub.types.carbon.ProxyData" %>
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<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>

<jsp:include page="../resources/resources-i18n-ajaxprocessor.jsp"/>
<!-- Dependencies -->
<script type="text/javascript" src="../yui/build/yahoo-dom-event/yahoo-dom-event.js"></script>
<script type="text/javascript" src="../yui/build/container/container_core-min.js"></script>

<!-- Connection handling lib -->
<script type="text/javascript" src="../yui/build/yahoo/yahoo-min.js"></script>
<script type="text/javascript" src="../yui/build/event/event-min.js"></script>
<script type="text/javascript" src="../yui/build/connection/connection-min.js"></script>
<script type="text/javascript" src="../resources/js/resource_util.js"></script>
<script type="text/javascript" src="../yui/build/utilities/utilities.js"></script>
<script type="text/javascript" src="../ajax/js/prototype.js"></script>

<!-- Source File -->
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<script type="text/javascript" src="../../yui/build/menu/menu-min.js"></script>
<script type="text/javascript" src="../../admin/js/main.js"></script>
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    resourceBundle="org.wso2.carbon.proxyadmin.ui.i18n.Resources"
    topPage="true"
    request="<%=request%>" />
```

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<carbon:jsi18n
    resourceBundle="org.wso2.carbon.proxyadmin.ui.i18n.JSResources"
    request="<%=request%>"
    i18nObjectName="proxyi18n" />
```

```
<script type="text/javascript" src="inc/utls.js"></script>
```

```
<script type="text/javascript">
    jQuery(document).ready(function() {
        jQuery("#proxy_form").validate({
            submitHandler: function(form) {
                proxy_form.action = "template_log-n-forward.jsp";
                proxy_form.submit();
                return true;
            }
        });
    });

    function enableLevelSelect() {
        if (document.getElementById('log_responses').checked) {
            document.getElementById('response_log_level').removeAttribute('disabled');
        } else {
            document.getElementById('response_log_level').disabled = 'true';
        }
    }
</script>
```

```
<%
    String proxyName = null;
    String logLevel = null;
    boolean logResponses = false;
    String responseLogLevel = null;

    boolean submitted = "true".equals(request.getParameter("formSubmitted"));
    if (submitted) {
```

```

try {
    proxyName = request.getParameter("proxyName");
    if (proxyName == null || "".equals(proxyName)) {
        throw new Exception("The proxy service name has not been specified");
    }

    logLevel = request.getParameter("logLevel");
    logResponses = !(request.getParameter("responseLogLevel").equals("none"));
    responseLogLevel = request.getParameter("responseLogLevel");

    String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
    ConfigurationContext configContext =
        (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
    String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
    ProxyServiceAdminClient client = new ProxyServiceAdminClient(
        configContext, backendServerURL, cookie, request.getLocale());

    ProxyData proxy = new ProxyData();
    proxy.setStartOnLoad(true);
    proxy.setName(proxyName);
    if (logLevel != null && !"".equals(logLevel) && !"none".equals(logLevel)) {
        String logMediator;
        if ("full".equals(logLevel)) {
            logMediator = "<log level=\"full\"/>";
        } else {
            logMediator = "<log/>";
        }
        proxy.setInSeqXML("<inSequence xmlns=\"http://ws.apache.org/ns/synapse\">" +
            logMediator + "</inSequence>");
    }

    if (!logResponses) {
        proxy.setOutSeqXML("<outSequence
xmlns=\"http://ws.apache.org/ns/synapse\"><send/></outSequence>");
    } else {
        String responseLogMediator;
        if ("full".equals(responseLogLevel)) {
            responseLogMediator = "<log level=\"full\"/>";
        } else if ("simple".equals(responseLogLevel)) {
            responseLogMediator = "<log/>";
        } else {
            responseLogMediator = "";
        }
        proxy.setOutSeqXML("<outSequence xmlns=\"http://ws.apache.org/ns/synapse\">" +
responseLogMediator + "<send/></outSequence>");
    }
}

```

```

        request.setAttribute("proxyDataObject", proxy);
    %>
    <jsp:include page="inc/endpoint_processor.jsp"/>
    <%
        if (request.getAttribute("proxyCreationError") != null) {
            throw new Exception((String) request.getAttribute("proxyCreationError"));
        }
    %>
    <jsp:include page="inc/publish_wsdl_processor.jsp"/>
    <%
        if (request.getAttribute("proxyCreationError") != null) {
            throw new Exception((String) request.getAttribute("proxyCreationError"));
        }
    %>
    <jsp:include page="inc/transports_processor.jsp"/>
    <%
        if (request.getAttribute("proxyCreationError") != null) {
            throw new Exception((String) request.getAttribute("proxyCreationError"));
        }
        client.addProxy(proxy);
        ResourceBundle bundle = ResourceBundle.getBundle("org.wso2.carbon.proxyadmin.ui.i18n.Resources");
        CarbonUIMessage.sendCarbonUIMessage(
            bundle.getString("proxy.add.success") + " " + proxy.getName(),
            CarbonUIMessage.INFO, request);
    %>
    <script type="text/javascript">
        proxyCreated('<%=proxyName%>');
    </script>
    <%
        } catch (Exception e) {
            String cause;
            if (e.getCause() != null) {
                cause = e.getCause().getMessage();
                cause = cause.replaceAll("\n|\r|\t|\\f", "");
            } else {
                cause = e.getMessage();
            }
    %>
    <script type="text/javascript">
        CARBON.showErrorDialog('<%=cause%>');
    </script>
    <%
        } finally {
            request.removeAttribute("proxyDataObject");
            request.removeAttribute("proxyCreationError");
        }
    %>

```

```

<jsp:include page="inc/metadata.jsp"/>

<div id="middle">
  <h2><fmt:message key="log-n-forward"/></h2>
  <div id="workArea">
    <p>
      <fmt:message key="log-n-forward.desc"/>
    </p>
    &nbsp;
    <form id="proxy_form" method="POST" action="">
      <input type="hidden" name="formSubmitted" value="true"/>
      <table cellpadding="0" cellspacing="0" border="0" class="styledLeft noBorders">
        <thead>
          <tr>
            <th colspan="2"><fmt:message key="proxy.settings"/></th>
          </tr>
        </thead>
        <tbody>
          <tr>
            <td colspan="2" style="padding-bottom: 10px;">
              <table>
                <tr>
                  <td style="width: 130px;"><fmt:message key="proxy.service.name"/><span
class="required">*</span></td>
                  <td><input id="proxy_name" type="text" class="required" minlength="2"
name="proxyName" size="40" onkeypress="return validateText(event)"/></td>
                </tr>
              </table>
              <jsp:include page="inc/endpoint_select.jsp"/>
            </td>
            <td><fmt:message key="log.request.level"/></td>
          </tr>
          <tr>
            <td>
              <select id="log_level" name="logLevel">
                <option value="none"><fmt:message key="none"/></option>
                <option value="full"><fmt:message key="full"/></option>
                <option value="simple" selected><fmt:message key="simple"/></option>
              </select>
            </td>
            <td>
              <input id="log_responses" type="checkbox" name="logResponses"
onchange="enableLevelSelect()"/></td>
          </tr>
          <tr>
            <td><fmt:message key="log.response"/></td>
            <td><input id="response_log_level" type="checkbox" name="responseLogLevel"
onchange="enableLevelSelect()"/></td>
          </tr>
        </tbody>
      </table>
    </form>
  </div>

```

```

        <option value="none" selected><fmt:message key="none"/></option>
        <option value="full"><fmt:message key="full"/></option>
        <option value="simple"><fmt:message key="simple"/></option>
    </select>
</td>
</tr>
</table>
</td>
</tr>
<tr>
    <td colspan="2">
        <jsp:include page="inc/publish_wsdl.jsp"/>
    </td>
</tr>
<tr>
    <td colspan="2">
        <jsp:include page="inc/transportes.jsp"/>
    </td>
</tr>
<tr>
    <td colspan="2" class="buttonRow">
        <input type="submit" class="button submit" value="<fmt:message key="create"/>" />
        <button class="button" onclick="templatesHome(); return false;"><fmt:message
key="cancel"/></button>
    </td>
</tr>
</tbody>
</table>
</form>
</div>
</div>

<%
    if (submitted) {
        if (proxyName != null) {
%>
        <script type="text/javascript">
            document.getElementById('proxy_name').value = '<%=proxyName%>';
        </script>
<%
        }
%>
        <script type="text/javascript">
            document.getElementById('log_level').value = '<%=logLevel%>';
            if ('<%=logResponses%>' == 'true') {
                document.getElementById('log_responses').checked = 'true';
                enableLevelSelect();
                document.getElementById('response_log_level').value = '<%=responseLogLevel%>';
            }
        </script>
    }
}
%>

```



```

    }
  </script>
  <%
    }
  %>

</fmt:bundle>
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~ specific language governing permissions and limitations
~ under the License.
-->
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>
<% @ page import="org.wso2.carbon.proxyadmin.ui.client.ProxyServiceAdminClient" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage" %>
<% @ page import="java.util.ResourceBundle" %>
<% @ page import="org.wso2.carbon.proxyadmin.stub.types.carbon.ProxyData" %>
<% @ page import="org.wso2.carbon.proxyadmin.stub.types.carbon.ProxyServicePolicyInfo" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>

<jsp:include page="../resources/resources-i18n-ajaxprocessor.jsp"/>
<!-- Dependencies -->
<script type="text/javascript" src="../yui/build/yahoo-dom-event/yahoo-dom-event.js"></script>
<script type="text/javascript" src="../yui/build/container/container_core-min.js"></script>

<!-- Connection handling lib -->
<script type="text/javascript" src="../yui/build/yahoo/yahoo-min.js"></script>
<script type="text/javascript" src="../yui/build/event/event-min.js"></script>
<script type="text/javascript" src="../yui/build/connection/connection-min.js"></script>
<script type="text/javascript" src="../resources/js/resource_util.js"></script>
<script type="text/javascript" src="../yui/build/utilities/utilities.js"></script>
<script type="text/javascript" src="../ajax/js/prototype.js"></script>

```

```

<!-- Source File -->
<script type="text/javascript" src="../../sequences/js/registry-browser.js"></script>
<script type="text/javascript" src="../../yui/build/menu/menu-min.js"></script>
<script type="text/javascript" src="../../admin/js/main.js"></script>

<fmt:bundle basename="org.wso2.carbon.proxyadmin.ui.i18n.Resources">

    <carbon:breadcrumb
        label="service.proxy.menu.text"
        resourceBundle="org.wso2.carbon.proxyadmin.ui.i18n.Resources"
        topPage="true"
        request="<%=request%>" />

    <carbon:jsi18n
        resourceBundle="org.wso2.carbon.proxyadmin.ui.i18n.JSResources"
        request="<%=request%>"
        i18nObjectName="proxyi18n" />

    <script type="text/javascript" src="inc/utills.js"></script>
    <script type="text/javascript" src="js/proxyservices.js"></script>

    <script type="text/javascript">
        jQuery(document).ready(function() {
            jQuery("#proxy_form").validate({
                submitHandler: function(form) {
                    proxy_form.action = "template_term-sec.jsp";
                    proxy_form.submit();
                    return true;
                }
            });
        });
    </script>

    /* function createProxy() {
        if (validateProxyName() && validateTargetEndpoint() &&
            validateWSDLOptions() && validateWSDLOptions() && validatePolicyKeys()) {
            proxy_form.action = "template_term-sec.jsp";
            proxy_form.submit();
            return true;
        }
        return false;
    }
    */

    function validatePolicyKeys() {
        var key = document.getElementById('secPolicyRegText').value;
        if (key == null || key == "") {

```

```

        CARBON.showErrorDialog(proxy18n['no.sec.policy']);
        return false;
    }
    return true;
}
</script>

<%
String proxyName = null;
String policy = null;
boolean submitted = "true".equals(request.getParameter("formSubmitted"));

if (submitted) {
    try {
        proxyName = request.getParameter("proxyName");
        if (proxyName == null || "".equals(proxyName)) {
            throw new Exception("The proxy service name has not been specified");
        }

        policy = request.getParameter("secPolicyRegText");
        if (policy == null || "".equals(policy)) {
            throw new Exception("The security policy has not been specified");
        }

        String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
        ConfigurationContext configContext =
            (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
        String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
        ProxyServiceAdminClient client = new ProxyServiceAdminClient(
            configContext, backendServerURL, cookie, request.getLocale());

        ProxyData proxy = new ProxyData();
        proxy.setStartOnLoad(true);
        proxy.setName(proxyName);
        proxy.setInSeqXML("<inSequence xmlns='http://ws.apache.org/ns/synapse'>" +
            "<header name='wsse:Security' action='remove' " +
                "xmlns:wsse='http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd'>" +
            "</inSequence>");
        proxy.setOutSeqXML("<outSequence
xmlns='http://ws.apache.org/ns/synapse'><send/></outSequence>");
        proxy.setEnableSecurity(true);
        ProxyServicePolicyInfo policyInfo = new ProxyServicePolicyInfo();
        policyInfo.setKey(policy);
        proxy.setPolicies(new ProxyServicePolicyInfo[] { policyInfo });

        request.setAttribute("proxyDataObject", proxy);

```

```

%>
<jsp:include page="inc/endpoint_processor.jsp"/>
<%
    if (request.getAttribute("proxyCreationError") != null) {
        throw new Exception((String) request.getAttribute("proxyCreationError"));
    }
%>
<jsp:include page="inc/publish_wsdl_processor.jsp"/>
<%
    if (request.getAttribute("proxyCreationError") != null) {
        throw new Exception((String) request.getAttribute("proxyCreationError"));
    }
%>
<jsp:include page="inc/transport_processor.jsp"/>
<%
    if (request.getAttribute("proxyCreationError") != null) {
        throw new Exception((String) request.getAttribute("proxyCreationError"));
    }
    client.addProxy(proxy);
    ResourceBundle bundle = ResourceBundle.getBundle("org.wso2.carbon.proxyadmin.ui.i18n.Resources");
    CarbonUIMessage.sendCarbonUIMessage(
        bundle.getString("proxy.add.success") + " " + proxy.getName(),
        CarbonUIMessage.INFO, request);
%>
<script type="text/javascript">
    proxyCreated('<%=proxyName%>');
</script>
<%
    } catch (Exception e) {
        String cause;
        if (e.getCause() != null) {
            cause = e.getCause().getMessage();
            cause = cause.replaceAll("\n|\r|\t|\\f", "");
        } else {
            cause = e.getMessage();
        }
%>
<script type="text/javascript">
    CARBON.showErrorDialog('<%=cause%>');
</script>
<%
    }
    }
%>

<jsp:include page="inc/metadata.jsp"/>

<div id="middle">

```

```

<h2><fmt:message key="term-sec"/></h2>
<div id="workArea">
  <p>
    <fmt:message key="term-sec.desc"/>
  </p>
  &nbsp;
  <form id="proxy_form" method="POST" action="">
    <input type="hidden" name="formSubmitted" value="true"/>
    <table cellpadding="0" cellspacing="0" border="0" class="styledLeft noBorders">
      <thead>
        <tr>
          <th colspan="2"><fmt:message key="proxy.settings"/></th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td colspan="2" style="padding-bottom:10px;">
            <table>
              <tr>
                <td style="width:130px;"><fmt:message key="proxy.service.name"/><span
class="required">*</span></td>
                <td><input id="proxy_name" type="text" name="proxyName" class="required" size="40"/
onkeypress="return validateText(event)"></td>
              </tr>
              <tr>
                <td><input type="text" name="proxyPort" value="" size="40"/></td>
                <td><input type="text" name="proxyPort" value="" size="40"/></td>
              </tr>
              <tr>
                <td><input type="text" name="proxyHost" value="" size="40"/></td>
                <td><input type="text" name="proxyHost" value="" size="40"/></td>
              </tr>
              <tr>
                <td><input type="text" name="proxyHost" value="" size="40"/></td>
                <td><input type="text" name="proxyHost" value="" size="40"/></td>
              </tr>
            </table>
          </td>
        </tr>
      </tbody>
    </table>
  </form>

```

```

        </tr>
    </table>
</td>
</tr>
</table>
</td>
</tr>
<tr>
    <td colspan="2">
        <jsp:include page="inc/publish_wsdl.jsp"/>
    </td>
</tr>
<tr>
    <td colspan="2">
        <jsp:include page="inc/transports.jsp"/>
    </td>
</tr>
<tr>
    <td colspan="2" class="buttonRow">
        <input class="button submit" type="submit" value="<fmt:message key="create"/>" />
        <button class="button" onclick="templatesHome(); return false;"><fmt:message
key="cancel"/></button>
    </td>
</tr>
</tbody>
</table>
</form>
</div>
</div>

```

```

<%
    if (submitted && proxyName != null) {
%>
<script type="text/javascript">
    document.getElementById('proxy_name').value = '<%=proxyName%>';
</script>
<%
    }
%>

```

</fmt:bundle>

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~ KIND, either express or implied. See the License for the
~ specific language governing permissions and limitations
~ under the License.
-->
<% @ page import="java.net.URL" %>
<% @ page import="java.io.File" %>
<% @ page import="java.util.Set" %>
<% @ page import="java.util.Iterator" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>

<jsp:include page="../resources/resources-i18n-ajaxprocessor.jsp"/>

<fmt:bundle basename="org.wso2.carbon.proxyadmin.ui.i18n.Resources">
<script type="text/javascript" src="../sequences/js/registry-browser.js"></script>
  <carbon:breadcrumb
    label="service.proxy.menu.text"
    resourceBundle="org.wso2.carbon.proxyadmin.ui.i18n.Resources"
    topPage="true"
    request="<%=request%>"/>

<div id="middle">
  <h2><fmt:message key="templates.title"/></h2>
  <div id="workArea">
    <p>
      <fmt:message key="templates.desc"/>
    </p>
    &nbsp;
    <table cellpadding="0" cellspacing="0" class="styledLeft" id="templatesTable">
      <thead>
        <tr>
          <th colspan="2"><fmt:message key="select.template"/></th>
        </tr>
      </thead>
      <tbody>
        <%
          //remove any sessions related to templates since template mode settings should not interfere
          //with proxy admin editor mode settings
          //in anonymous endpoint mode of proxy ui
          session.removeAttribute("endpointTemplate");
          session.removeAttribute("templateEditingMode");
          session.removeAttribute("templateRegKey");
        %>

```

```

//remove this attribute to avoid any sequence template related conflicts
//in anonymous sequence mode of proxy ui
session.removeAttribute("editorClientFactory");

Set<String> templates = application.getResourcePaths("/proxyservices");
Iterator<String> iter = templates.iterator();
while (iter.hasNext()) {
    String template = iter.next();
    template = template.substring(template.lastIndexOf("/") + 1);
    String url = template;
    if (template.startsWith("template_") && template.endsWith(".jsp")) {
        template = template.substring(9, template.length() - 4);
    }
}

<tr>
    <td width="20%">
        <a href="<%=url%>"><fmt:message key="<%=template%>"/></a>
    </td>
    <td><fmt:message key="<%=template+'.desc'%>"/></td>
</tr>
<%
    }
}
%>
<tr>
    <td width="20%">
        <a href="./index.jsp?startwiz=true"><fmt:message key="custom.proxy"/></a>
    </td>
    <td><fmt:message key="custom.proxy.desc"/></td>
</tr>
</tbody>
</table>
</div>
</div>

<script type="text/javascript">
    alternateTableRows('templatesTable', 'tableEvenRow', 'tableOddRow');
</script>

</fmt:bundle>
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```



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~ specific language governing permissions and limitations
~ under the License.
-->
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>
<% @ page import="org.wso2.carbon.proxyadmin.ui.client.ProxyServiceAdminClient" %>
<% @ page import="java.net.URL" %>
<% @ page import="java.util.ResourceBundle" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage" %>
<% @ page import="org.wso2.carbon.proxyadmin.stub.types.carbon.ProxyData" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>

<jsp:include page="../resources/resources-i18n-ajaxprocessor.jsp"/>
<!-- Dependencies -->
<script type="text/javascript" src="../yui/build/yahoo-dom-event/yahoo-dom-event.js"></script>
<script type="text/javascript" src="../yui/build/container/container_core-min.js"></script>

<!-- Connection handling lib -->
<script type="text/javascript" src="../yui/build/yahoo/yahoo-min.js"></script>
<script type="text/javascript" src="../yui/build/event/event-min.js"></script>
<script type="text/javascript" src="../yui/build/connection/connection-min.js"></script>
<script type="text/javascript" src="../resources/js/resource_util.js"></script>
<script type="text/javascript" src="../yui/build/utilities/utilities.js"></script>
<script type="text/javascript" src="../ajax/js/prototype.js"></script>

<!-- Source File -->
<script type="text/javascript" src="../sequences/js/registry-browser.js"></script>
<script type="text/javascript" src="../yui/build/menu/menu-min.js"></script>
<script type="text/javascript" src="../admin/js/main.js"></script>

<fmt:bundle basename="org.wso2.carbon.proxyadmin.ui.i18n.Resources">

<carbon:breadcrumb
    label="service.proxy.menu.text"
    resourceBundle="org.wso2.carbon.proxyadmin.ui.i18n.Resources"
    topPage="true"
    request="<%=request%>" />

<carbon:jsi18n
    resourceBundle="org.wso2.carbon.proxyadmin.ui.i18n.JSResources"

```

```

request="<%=request%>"
i18nObjectName="proxyi18n"/>

<script type="text/javascript" src="inc/utlils.js"></script>
<script type="text/javascript" src="js/proxyservices.js"></script>

<script type="text/javascript">
function createProxy() {
    if (validateProxyName() && validateWSDLOptions() &&
        validateTransports() && validateWsdEndpoint()) {
        proxy_form.action = "template_wsdl-based.jsp";
        proxy_form.submit();
        return true;
    }
    return false;
}

function testWsdURIForEndpoint() {
    var btn = document.getElementById('testMainConnBtn');
    btn.disabled = 'true';
    var wsdlUri = document.getElementById('main_wsdl_url').value;
    if (wsdlUri == "") {
        CARBON.showWarningDialog(proxyi18n["invalid.wsdl.uri"]);
        btn.removeAttribute('disabled');
    } else {
        jQuery.get("testConnection-ajaxprocessor.jsp", {'url' : wsdlUri},
            function(data,status) {
                if (data.replace(/^\s+|\s+$/g, "") != 'success') {
                    CARBON.showErrorDialog(proxyi18n["invalid.wsdl.uri2"]);
                } else {
                    CARBON.showInfoDialog(proxyi18n["wsdl.uri.ok"]);
                }
                btn.removeAttribute('disabled');
            });
    }
}

function validateWsdEndpoint() {
    var val = document.getElementById('main_wsdl_url').value;
    if (val == null || val == "") {
        CARBON.showErrorDialog(proxyi18n['no.wsdl.url']);
        return false;
    }

    val = document.getElementById('wsdl_service').value;
    if (val == null || val == "") {
        CARBON.showErrorDialog(proxyi18n['no.wsdl.service']);
        return false;
    }
}

```

```

}

val = document.getElementById('wsdl_port').value;
if (val == null || val == "") {
    CARBON.showErrorDialog(proxy118n['no.wsdl.port']);
    return false;
}
return true;
}

function publishSameWSDL() {
    var chk = document.getElementById('publish_same');
    var combo = document.getElementById('publishWsdCombo');
    var txtBox = document.getElementById('wsdlUriText');

    if (chk.checked) {
        combo.selectedIndex = 2;
        txtBox.value = document.getElementById('main_wsdl_url').value;
        hideElem('wsdlInline');
        showElem('wsdlUri');
        hideElem('wsdlReg');
        showElem('wsdlResourceTr');

        disableItem('publishWsdCombo');
        disableItem('wsdlInlineText');
        disableItem('wsdlUriText');
        disableItem('regBrowserLink');
        disableItem('testConnBtn');
    } else {
        combo.selectedIndex = 0;
        txtBox.value = "";
        hideElem('wsdlInline');
        hideElem('wsdlUri');
        hideElem('wsdlReg');
        hideElem('wsdlResourceTr');

        enableItem('publishWsdCombo');
        enableItem('wsdlInlineText');
        enableItem('wsdlUriText');
        enableItem('regBrowserLink');
        enableItem('testConnBtn');
    }
}

function enableItem(id) {
    document.getElementById(id).removeAttribute('disabled');
}

```

```

function disableItem(id) {
    document.getElementById(id).disabled = 'true';
}
</script>

<%
String proxyName = null;
String wsdlURL = null;
String wsdlService = null;
String wsdlPort = null;
boolean publishSame = false;

boolean submitted = "true".equals(request.getParameter("formSubmitted"));

if (submitted) {
    try {
        proxyName = request.getParameter("proxyName");
        if (proxyName == null || "".equals(proxyName)) {
            throw new Exception("The proxy service name has not been specified");
        }

        wsdlURL = request.getParameter("mainWsdURL");
        if (wsdlURL == null || "".equals(wsdlURL)) {
            throw new Exception("The WSDL URL has not been specified");
        }

        URL url = new URL(wsdlURL);

        wsdlService = request.getParameter("wsdlService");
        if (wsdlService == null || "".equals(wsdlService)) {
            throw new Exception("The WSDL service has not been specified");
        }

        wsdlPort = request.getParameter("wsdlPort");
        if (wsdlPort == null || "".equals(wsdlPort)) {
            throw new Exception("The WSDL port has not been specified");
        }

        publishSame = request.getParameter("publishSameWsd") != null;

        String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
        ConfigurationContext configContext =
            (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
        String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
        ProxyServiceAdminClient client = new ProxyServiceAdminClient(
            configContext, backendServerURL, cookie, request.getLocale());

```

```

        ProxyData proxy = new ProxyData();
        proxy.setStartOnLoad(true);
        proxy.setName(proxyName);
        proxy.setEndpointXML("<endpoint xmlns=\"http://ws.apache.org/ns/synapse\"><wsdl uri=\"" +
url.toString() + "\" " +
        "service=\"" + wsdlService + "\" port=\"" + wsdlPort + "\"/></endpoint>");
        proxy.setOutSeqXML("<outSequence
xmlns=\"http://ws.apache.org/ns/synapse\"><send/></outSequence>");

        if (publishSame) {
            request.setAttribute("processResourcesOnly", "true");
            proxy.setWsdAvailable(true);
            proxy.setWsdURI(wsdlURL);
        }

        request.setAttribute("proxyDataObject", proxy);
    %>
<jsp:include page="inc/publish_wsdl_processor.jsp"/>
<%
    if (request.getAttribute("proxyCreationError") != null) {
        throw new Exception((String) request.getAttribute("proxyCreationError"));
    }
    %>
<jsp:include page="inc/transport_processor.jsp"/>
<%
    if (request.getAttribute("proxyCreationError") != null) {
        throw new Exception((String) request.getAttribute("proxyCreationError"));
    }
    client.addProxy(proxy);
    ResourceBundle bundle = ResourceBundle.getBundle("org.wso2.carbon.proxyadmin.ui.i18n.Resources");
    CarbonUIMessage.sendCarbonUIMessage(
        bundle.getString("proxy.add.success") + " " + proxy.getName(),
        CarbonUIMessage.INFO, request);
    %>
<script type="text/javascript">
    proxyCreated('<%=proxyName%>');
</script>
<%
    } catch (Exception e) {
        String cause;
        if (e.getCause() != null) {
            cause = e.getCause().getMessage();
            cause = cause.replaceAll("\n\\r\\t\\f", "");
        } else {
            cause = e.getMessage();
        }
    }
    %>
<script type="text/javascript">

```

```

    CARBON.showErrorDialog("<%=cause%>");
</script>
<%
    }
    }
%>

<jsp:include page="inc/metadata.jsp"/>

<div id="middle">
    <h2><fmt:message key="wsdl-based"/></h2>
    <div id="workArea">
        <p>
            <fmt:message key="wsdl-based.desc"/>
        </p>
        &nbsp;
        <form id="proxy_form" method="POST" action="">
            <input type="hidden" name="formSubmitted" value="true"/>
            <table cellpadding="0" cellspacing="0" border="0" class="styledLeft noBorders">
                <thead>
                    <tr>
                        <th colspan="2"><fmt:message key="proxy.settings"/></th>
                    </tr>
                </thead>
                <tbody>
                    <tr>
                        <td colspan="2" style="padding-bottom: 10px;">
                            <table>
                                <tr>
                                    <td style="width: 130px;"><fmt:message key="proxy.service.name"/><span
class="required">*</span></td>
                                    <td><input id="proxy_name" type="text" name="proxyName" size="40" onkeypress="return
validateText(event)"/></td>
                                </tr>
                                <tr>
                                    <td><fmt:message key="wsdl.uri"/><span class="required">*</span></td>
                                    <td>
                                        <input id="main_wsdl_url" type="text" name="mainWsdURL" size="60"/>
                                        <button id="testMainConnBtn" onclick="testWsdURIForEndpoint(); return false;"
class="button">Test URI</button>
                                    </td>
                                </tr>
                                <tr>
                                    <td><fmt:message key="wsdl.service"/><span class="required">*</span></td>
                                    <td><input id="wsdl_service" name="wsdlService" type="text" size="40"/></td>
                                </tr>
                                <tr>
                                    <td><fmt:message key="wsdl.port"/><span class="required">*</span></td>

```

```

        <td><input id="wsdl_port" name="wsdlPort" type="text" size="40"/></td>
    </tr>
    <tr>
        <td><fmt:message key="publish.same.wsdl"/></td>
        <td><input type="checkbox" name="publishSameWsd" id="publish_same"
onchange="publishSameWSDL();"/></td>
    </tr>
</table>
</td>
</tr>
<tr>
    <td colspan="2">
        <jsp:include page="inc/publish_wsdl.jsp?templateType=wsdl"/>
    </td>
</tr>
<tr>
    <td colspan="2">
        <jsp:include page="inc/transport.js"/>
    </td>
</tr>
<tr>
    <td colspan="2" class="buttonRow">
        <button class="button" onclick="createProxy(); return false;"><fmt:message
key="create"/></button>
        <button class="button" onclick="templatesHome(); return false;"><fmt:message
key="cancel"/></button>
    </td>
</tr>
</tbody>
</table>
</form>
</div>
</div>

<%
    if (submitted) {
        if (proxyName != null) {
%>
        <script type="text/javascript">
            document.getElementById('proxy_name').value = '<%=proxyName%>';
        </script>
<%
        }

        if (wsdlURL != null) {
%>
        <script type="text/javascript">
            document.getElementById('main_wsdl_url').value = '<%=wsdlURL%>';

```

```

    </script>
    <%
        }

        if (wsdlPort != null) {
    %>
    <script type="text/javascript">
        document.getElementById('wsdl_port').value = '<%=wsdlPort%>';
    </script>
    <%
        }

        if (wsdlService != null) {
    %>
    <script type="text/javascript">
        document.getElementById('wsdl_service').value = '<%=wsdlService%>';
    </script>
    <%
        }

        if (publishSame) {
    %>
    <script type="text/javascript">
        document.getElementById('publish_same').checked = 'true';
        publishSameWSDL();
    </script>
    <%
        }
    }
    %>

</fmt:bundle>
<!--
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~ under the License.

```



```

-->
<% @ page import="org.wso2.carbon.proxyadmin.ui.client.ProxyServiceAdminClient" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage" %>
<% @ page import="java.util.ResourceBundle" %>
<% @ page import="org.wso2.carbon.proxyadmin.stub.types.carbon.ProxyData" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>

<jsp:include page="../resources/resources-i18n-ajaxprocessor.jsp"/>
<!-- Dependencies -->
<script type="text/javascript" src="../yui/build/yahoo-dom-event/yahoo-dom-event.js"></script>
<script type="text/javascript" src="../yui/build/container/container_core-min.js"></script>

<!-- Connection handling lib -->
<script type="text/javascript" src="../yui/build/yahoo/yahoo-min.js"></script>
<script type="text/javascript" src="../yui/build/event/event-min.js"></script>
<script type="text/javascript" src="../yui/build/connection/connection-min.js"></script>
<script type="text/javascript" src="../resources/js/resource_util.js"></script>
<script type="text/javascript" src="../yui/build/utilities/utilities.js"></script>
<script type="text/javascript" src="../ajax/js/prototype.js"></script>
<script type="text/javascript" src="../sequences/js/registry-browser.js"></script>
<!-- Source File -->
<script type="text/javascript" src="../sequences/js/registry-browser.js"></script>
<script type="text/javascript" src="../yui/build/menu/menu-min.js"></script>
<script type="text/javascript" src="../admin/js/main.js"></script>

<fmt:bundle basename="org.wso2.carbon.proxyadmin.ui.i18n.Resources">

<carbon:breadcrumb
    label="service.proxy.menu.text"
    resourceBundle="org.wso2.carbon.proxyadmin.ui.i18n.Resources"
    topPage="true"
    request="<%=request%>" />

<carbon:jsi18n
    resourceBundle="org.wso2.carbon.proxyadmin.ui.i18n.JSResources"
    request="<%=request%>"
    i18nObjectName="proxyi18n" />

<script type="text/javascript" src="inc/utills.js"></script>
<script type="text/javascript" src="js/proxyservices.js"></script>
<script type="text/javascript" src="../admin/js/interaction_blocker.js"></script>

<script type="text/javascript">

```

```

jQuery(document).ready(function() {
    jQuery("#proxy_form").validate({
        submitHandler: function(form) {
            proxy_form.action = "template_transform.jsp";
            proxy_form.submit();
            return true;
        }
    });
});

function enableResponseTransform(select) {
    if (select.checked) {
        showElem('responseXsltSelect');
    } else {
        hideElem('responseXsltSelect');
    }
}
</script>

<%
String proxyName = null;
String xsltKey = null;
boolean transformResponses = false;
String responseXsltKey = null;

boolean submitted = "true".equals(request.getParameter("formSubmitted"));
if (submitted) {
    try {
        proxyName = request.getParameter("proxyName");
        if (proxyName == null || "".equals(proxyName)) {
            throw new Exception("The proxy service name has not been specified");
        }

        xsltKey = request.getParameter("reqXsltKey");

        transformResponses = request.getParameter("transformResponses") != null;
        if (transformResponses) {
            responseXsltKey = request.getParameter("resXsltKey");
            if (responseXsltKey == null || "".equals(responseXsltKey)) {
                throw new Exception("XSLT for the responses has not been specified");
            }
        }
    }

    String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
    ConfigurationContext configContext =
        (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
    String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);

```

```

ProxyServiceAdminClient client = new ProxyServiceAdminClient(
    configContext, backendServerURL, cookie, request.getLocale());

ProxyData proxy = new ProxyData();
proxy.setStartOnLoad(true);
proxy.setName(proxyName);
if (xsltKey != null && !"".equals(xsltKey)) {
    proxy.setInSeqXML("<inSequence xmlns='http://ws.apache.org/ns/synapse'>" +
        "<xslt key='\" + xsltKey + "\"/></inSequence>");
}
if (responseXsltKey != null) {
    proxy.setOutSeqXML("<outSequence xmlns='http://ws.apache.org/ns/synapse'>" +
        "<xslt key='\" + responseXsltKey + "\"/><send/></outSequence>");
} else {
    proxy.setOutSeqXML("<outSequence xmlns='http://ws.apache.org/ns/synapse'>" +
        "<send/></outSequence>");
}

request.setAttribute("proxyDataObject", proxy);
%>
<jsp:include page="inc/endpoint_processor.jsp"/>
<%
    if (request.getAttribute("proxyCreationError") != null) {
        throw new Exception((String) request.getAttribute("proxyCreationError"));
    }
%>
<jsp:include page="inc/publish_wsdl_processor.jsp"/>
<%
    if (request.getAttribute("proxyCreationError") != null) {
        throw new Exception((String) request.getAttribute("proxyCreationError"));
    }
%>
<jsp:include page="inc/transports_processor.jsp"/>
<%
    if (request.getAttribute("proxyCreationError") != null) {
        throw new Exception((String) request.getAttribute("proxyCreationError"));
    }
    client.addProxy(proxy);
    ResourceBundle bundle = ResourceBundle.getBundle("org.wso2.carbon.proxyadmin.ui.i18n.Resources");
    CarbonUIMessage.sendCarbonUIMessage(
        bundle.getString("proxy.add.success") + " " + proxy.getName(),
        CarbonUIMessage.INFO, request);
%>
<script type="text/javascript">
    proxyCreated('<%=proxyName%>');
</script>
<%
    } catch (Exception e) {

```

```

String cause;
if (e.getCause() != null) {
    cause = e.getCause().getMessage();
    cause = cause.replaceAll("\n\\r\\t\\f", "");
} else {
    cause = e.getMessage();
}
%>
<script type="text/javascript">
    CARBON.showErrorDialog('<%=cause%>');
</script>
<%
    } finally {
        request.removeAttribute("proxyDataObject");
        request.removeAttribute("proxyCreationError");
    }
}
%>

<jsp:include page="inc/metadata.jsp"/>

<div id="middle">
<h2><fmt:message key="transform"/></h2>
<div id="workArea">
    <p>
        <fmt:message key="transform.desc"/>
    </p>
    &nbsp;
    <form id="proxy_form" method="POST" action="">
        <input type="hidden" name="formSubmitted" value="true"/>
        <table cellpadding="0" cellspacing="0" border="0" class="styledLeft noBorders">
            <thead>
                <tr>
                    <th colspan="2"><fmt:message key="proxy.settings"/></th>
                </tr>
            </thead>
            <tbody>
                <tr>
                    <td colspan="2" style="padding-bottom:10px;">
                        <table>
                            <tr>
                                <td style="width:130px;"><fmt:message key="proxy.service.name"/><span
class="required">*</span></td>
                                <td><input id="proxy_name" class="required" minlength="2" type="text" name="proxyName"
size="40" onkeypress="return validateText(event)"/></td>
                            </tr>
                        </table>
                    </td>
                </tr>
            </tbody>
        </table>
        <jsp:include page="inc/endpoint_select.jsp"/>
    </div>

```

```

<td><fmt:message key="req.xslt"/></td>
<td>
  <table class="normal" style="padding-left:0px">
    <tr>
      <td style="padding-left:0px !important">
        <input type="text" id="reqXsltKey"
          name="reqXsltKey" size="40"
          readonly="true"/>
      </td>
      <td>
        <a href="#"
          class="registry-picker-icon-link"
          style="padding-left:20px"
          onclick="showRegistryBrowser('reqXsltKey', '/_system/config');"><fmt:message
key="conf.registry"/></a>
      </td>
      <td>
        <a href="#"
          class="registry-picker-icon-link"
          style="padding-left:20px"
          onclick="showRegistryBrowser('reqXsltKey',
/_system/governance');"><fmt:message key="gov.registry"/></a>
      </td>
    </tr>
  </table>
</td>
</tr>
<tr>
  <td><fmt:message key="transform.res"/></td>
  <td><input type="checkbox" id="transformResponses" name="transformResponses"
onchange="enableResponseTransform(this);"/></td>
</tr>
<tr id="responseXsltSelect" style="display:none;">
  <td><fmt:message key="res.xslt"/></td>
  <td>
    <table class="normal" style="padding-left:0px">
      <tr>
        <td style="padding-left:0px !important">
          <input type="text" id="resXsltKey"
            name="resXsltKey" size="40"
            readonly="true"/>
        </td>
        <td>
          <a href="#"
            class="registry-picker-icon-link"
            style="padding-left:20px"
            onclick="showRegistryBrowser('resXsltKey', '/_system/config');"><fmt:message
key="conf.registry"/></a>
        </td>
      </tr>
    </table>
  </td>
</tr>

```

```

        </td>
        <td>
            <a href="#"
                class="registry-picker-icon-link"
                style="padding-left:20px"
                onclick="showRegistryBrowser('resXsltKey',
'/_system/governance');"><fmt:message key="gov.registry"/></a>
        </td>
    </tr>
</table>
</td>
</tr>
</table>
</td>
</tr>
<tr>
    <td colspan="2">
        <jsp:include page="inc/publish_wsdl.jsp"/>
    </td>
</tr>
<tr>
    <td colspan="2">
        <jsp:include page="inc/transport.jsp"/>
    </td>
</tr>
<tr>
    <td colspan="2" class="buttonRow">
        <input class="button submit" type="submit" value="<fmt:message key="create"/>" />
        <button class="button" onclick="templatesHome(); return false;"><fmt:message
key="cancel"/></button>
    </td>
</tr>
</tbody>
</table>
</form>
</div>
</div>

<%
    if (submitted) {
        if (proxyName != null) {
%>
        <script type="text/javascript">
            document.getElementById('proxy_name').value = '<%=proxyName%>';
        </script>
    <%
    }
}

```

```

        if (transformResponses) {
    %>
    <script type="text/javascript">
        var chk = document.getElementById('transformResponses');
        chk.checked = 'true';
        enableResponseTransform(chk);
    </script>
    <%
        }
    }
    %>

</fmt:bundle>
<!--
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~ software distributed under the License is distributed on an
~ "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
~ KIND, either express or implied. See the License for the
~ specific language governing permissions and limitations
~ under the License.
-->
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>
<% @ page import="org.wso2.carbon.proxyadmin.ui.client.ProxyServiceAdminClient" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage" %>
<% @ page import="java.util.ResourceBundle" %>
<% @ page import="org.wso2.carbon.proxyadmin.stub.types.carbon.ProxyData" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>

<jsp:include page="../../resources/resources-i18n-ajaxprocessor.jsp"/>

<!-- Dependencies -->
<script type="text/javascript" src="../../yui/build/yahoo-dom-event/yahoo-dom-event.js"></script>
<script type="text/javascript" src="../../yui/build/container/container_core-min.js"></script>

<!-- Connection handling lib -->

```

```

<script type="text/javascript" src="../yui/build/yahoo/yahoo-min.js"></script>
<script type="text/javascript" src="../yui/build/event/event-min.js"></script>
<script type="text/javascript" src="../yui/build/connection/connection-min.js"></script>
<script type="text/javascript" src="../resources/js/resource_util.js"></script>
<script type="text/javascript" src="../yui/build/utilities/utilities.js"></script>
<script type="text/javascript" src="../ajax/js/prototype.js"></script>

<!-- Source File -->
<script type="text/javascript" src="../sequences/js/registry-browser.js"></script>
<script type="text/javascript" src="../yui/build/menu/menu-min.js"></script>
<script type="text/javascript" src="../admin/js/main.js"></script>

<fmt:bundle basename="org.wso2.carbon.proxyadmin.ui.i18n.Resources">

<carbon:breadcrumb
    label="service.proxy.menu.text"
    resourceBundle="org.wso2.carbon.proxyadmin.ui.i18n.Resources"
    topPage="true"
    request="<%=request%>"/>

<carbon:jsi18n
    resourceBundle="org.wso2.carbon.proxyadmin.ui.i18n.JSResources"
    request="<%=request%>"
    i18nObjectName="proxyi18n"/>

<script type="text/javascript" src="inc/utills.js"></script>

<%
    String proxyName = null;
    boolean submitted = "true".equals(request.getParameter("formSubmitted"));
    if (submitted) {
        try {
            proxyName = request.getParameter("proxyName");
            if (proxyName == null || "".equals(proxyName)) {
                throw new Exception("The proxy service name has not been specified");
            }

            String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
            ConfigurationContext configContext =
                (ConfigurationContext)
            config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
            String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
            ProxyServiceAdminClient client = new ProxyServiceAdminClient(
                configContext, backendServerURL, cookie, request.getLocale());

            ProxyData proxy = new ProxyData();

```



```

        proxy.setStartOnLoad(true);
        proxy.setName(proxyName);
        proxy.setOutSeqXML("<outSequence
xmlns=\\"http://ws.apache.org/ns/synapse\\"><send/></outSequence>");

        request.setAttribute("proxyDataObject", proxy);
    %>
    <jsp:include page="inc/endpoint_processor.jsp"/>
    <%
        if (request.getAttribute("proxyCreationError") != null) {
            throw new Exception((String) request.getAttribute("proxyCreationError"));
        }
    %>
    <jsp:include page="inc/publish_wsdl_processor.jsp"/>
    <%
        if (request.getAttribute("proxyCreationError") != null) {
            throw new Exception((String) request.getAttribute("proxyCreationError"));
        }
    %>
    <jsp:include page="inc/transport_processor.jsp"/>
    <%
        if (request.getAttribute("proxyCreationError") != null) {
            throw new Exception((String) request.getAttribute("proxyCreationError"));
        }

        client.addProxy(proxy);
        ResourceBundle bundle = ResourceBundle.getBundle("org.wso2.carbon.proxyadmin.ui.i18n.Resources");
        CarbonUIMessage.sendCarbonUIMessage(
            bundle.getString("proxy.add.success") + " " + proxy.getName(),
            CarbonUIMessage.INFO, request);
    %>
    <script type="text/javascript">
        proxyCreated('<%=proxyName%>');
    </script>
    <%
        } catch (Exception e) {
            String cause;
            if (e.getCause() != null) {
                cause = e.getCause().getMessage();
                cause = cause.replaceAll("\n|\r|\t|\\f", "");
            } else {
                cause = e.getMessage();
            }
        }
    %>
    <script type="text/javascript">
        CARBON.showErrorDialog('<%=cause%>');
    </script>
    <%

```

```

    } finally {
        request.removeAttribute("proxyDataObject");
        request.removeAttribute("proxyCreationError");
    }
}
%>

```

```
<jsp:include page="inc/metadata.jsp"/>
```

```
<script type="text/javascript">
```

```

jQuery(document).ready(function() {
    jQuery("#proxy_form").validate({
        submitHandler: function(form) {
            proxy_form.action = "template_pass-through.jsp";
            proxy_form.submit();
            return true;
        }
    });
});

```

```
</script>
```

```
<div id="middle">
```

```
<h2><fmt:message key="pass-through"/></h2>
```

```
<div id="workArea">
```

```
<p>
```

```
<fmt:message key="pass-through.desc"/>
```

```
</p>
```

```
&nbsp;
```

```
<form id="proxy_form" method="POST" action="">
```

```
<input type="hidden" name="formSubmitted" value="true"/>
```

```
<table cellpadding="0" cellspacing="0" border="0" class="styledLeft noBorders">
```

```
<thead>
```

```
<tr>
```

```
<th colspan="2"><fmt:message key="proxy.settings"/></th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
<tr>
```

```
<td colspan="2" style="padding-bottom: 10px;">
```

```
<table>
```

```
<tr>
```

```
<td style="width: 130px;"><fmt:message key="proxy.service.name"/><span
```

```
class="required">*</span></td>
```

```
<td><input id="proxy_name" type="text" name="proxyName" class="required"
```

```

minlength="2" size="40" onkeypress="return validateText(event)"/></td>
        </tr>
        <jsp:include page="inc/endpoint_select.jsp"/>
    </table>
</td>
</tr>
<tr>
    <td colspan="2">
        <jsp:include page="inc/publish_wsdl.jsp"/>
    </td>
</tr>
<tr>
    <td colspan="2">
        <jsp:include page="inc/transport_s.jsp"/>
    </td>
</tr>
<tr>
    <td colspan="2" class="buttonRow">
        <input class="submit button" type="submit" value="<fmt:message key="create"/>"/>
        <%--<button class="button" onclick="createProxy(); return false;"><fmt:message
key="create"/></button>--%>
        <button class="button" onclick="templatesHome(); return false;"><fmt:message
key="cancel"/></button>
    </td>
</tr>
</tbody>
</table>
</form>
</div>
</div>

<%
    if (submitted && proxyName != null) {
%>
<script type="text/javascript">
    document.getElementById('proxy_name').value = '<%=proxyName%>';
</script>
<%
    }
%>

</fmt:bundle>

```

1.781 org.wso2.carbon.qpid.stub 4.2.0

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1.782 org.wso2.carbon.queuing 4.2.0

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1.783 org.wso2.carbon.redirector.servlet 2.2.1

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1.784 org.wso2.carbon.redirector.servlet.stub

4.2.0

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1.785 org.wso2.carbon.redirector.servlet.ui

2.2.0

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1.786 org.wso2.carbon.registry.admin.api

4.2.0

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1.788 org.wso2.carbon.registry.common 4.2.1

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1.789 org.wso2.carbon.registry.common.ui

4.2.0

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1.790 org.wso2.carbon.registry.core 4.2.0

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 */
package org.wso2.carbon.registry.core.test.jdbc;

import org.wso2.carbon.registry.core.Aspect;
import org.wso2.carbon.registry.core.Registry;
import org.wso2.carbon.registry.core.Resource;
import org.wso2.carbon.registry.core.config.RegistryContext;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.jdbc.EmbeddedRegistryService;
import org.wso2.carbon.registry.core.jdbc.handlers.RequestContext;
import org.wso2.carbon.registry.core.test.utils.BaseTestCase;
import org.wso2.carbon.user.api.RealmConfiguration;
import org.wso2.carbon.utils.multitenancy.MultitenantConstants;

public class SimpleLifecycleTest extends BaseTestCase {

    protected static Registry registry = null;
    protected static EmbeddedRegistryService embeddedRegistryService = null;

    public static class SimpleLifecycle extends Aspect {
        public static final String STATE_PROP = "SimpleLifecycle.state";
        public static final String INIT = "init";
        public static final String FINAL = "final";

        public static final String ACTION = "transition";

        public void associate(Resource resource, Registry registry) throws RegistryException {
            resource.setProperty(STATE_PROP, INIT);
        }
    }
}
```

```

public void dissociate(RequestContext context) {
    context.getResource().removeProperty(STATE_PROP);
}

public void invoke(RequestContext context, String action) throws RegistryException {
    if (!ACTION.equals(action)) {
        throw new RegistryException("Wrong action");
    }

    Resource r = context.getResource();
    String state = r.getProperty(STATE_PROP);
    if (state == null) {
        throw new RegistryException("No state property");
    }

    if (!INIT.equals(state)) {
        throw new RegistryException("Invalid state '" + state + "'");
    }

    r.setProperty(STATE_PROP, FINAL);
    context.getRegistry().put(r.getPath(), r);
}

static String [] actions = new String [] { ACTION };

public String [] getAvailableActions(RequestContext context) {
    Resource r = context.getResource();
    String state = r.getProperty(STATE_PROP);

    if (INIT.equals(state)) {
        return actions;
    }

    return null;
}

public void setUp() {
    super.setUp();
    if (embeddedRegistryService != null) {
        return;
    }
    try {
        embeddedRegistryService = ctx.getEmbeddedRegistryService();
        RealmUnawareRegistryCoreServiceComponent comp =
            new RealmUnawareRegistryCoreServiceComponent();
        comp.setRealmService(ctx.getRealmService());
        comp.registerBuiltInHandlers(embeddedRegistryService);
    }
}

```

```

// get the realm config to retrieve admin username, password
RealmConfiguration realmConfig = ctx.getRealmService().getBootstrapRealmConfiguration();
registry = embeddedRegistryService.getUserRegistry(
    realmConfig.getAdminUserName(), realmConfig.getAdminPassword());
} catch (RegistryException e) {
    fail("Failed to initialize the registry. Caused by: " + e.getMessage());
}
}

public void testSimpleLifecycle() throws Exception {
    final String RESOURCE = "/r1";
    final String LIFECYCLE = "simpleLifecycle";

    RegistryContext context = registry.getRegistryContext();
    context.selectDBConfig("h2-db");
    context.addAspect(LIFECYCLE, new SimpleLifecycle(), MultitenantConstants.SUPER_TENANT_ID);

    String [] aspects = registry.getAvailableAspects();
    assertTrue(aspects.length > 0);
    boolean found = false;
    for (String aspect : aspects) {
        if (aspect.equals(LIFECYCLE)) {
            found = true;
        }
    }
    assertTrue("Lifecycle not found in available aspects", found);

    Resource resource = registry.newResource();
    resource.setDescription("My thing");
    registry.put(RESOURCE, resource);

    registry.associateAspect(RESOURCE, LIFECYCLE);

    resource = registry.get(RESOURCE);
    assertNotNull(resource);
    String propValue = resource.getProperty(SimpleLifecycle.STATE_PROP);
    assertNotNull(propValue);
    assertEquals("Wrong initial state!", SimpleLifecycle.INIT, propValue);

    String [] actions = registry.getAspectActions(RESOURCE, LIFECYCLE);
    assertNotNull("No available actions", actions);
    assertEquals("Wrong # of available actions", 1, actions.length);
    assertEquals("Wrong available action", SimpleLifecycle.ACTION, actions[0]);

    registry.invokeAspect(RESOURCE, LIFECYCLE, SimpleLifecycle.ACTION);

    resource = registry.get(RESOURCE);

```

```

    // OK, now we should be in the next state
    propValue = resource.getProperty(SimpleLifecycle.STATE_PROP);
    assertNotNull(propValue);
    assertEquals("Wrong state!", SimpleLifecycle.FINAL, propValue);
}
}
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 */
package org.wso2.carbon.registry.app;

import org.wso2.carbon.registry.core.ResourceImpl;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.utils.RegistryUtils;

import javax.net.ssl.HostnameVerifier;
import javax.net.ssl.HttpsURLConnection;
import javax.net.ssl.SSLSession;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.net.URL;
import java.net.URLConnection;

/**
 * Implementation of a resource, to be used by the remote registry.
 */
public class RemoteResourceImpl extends ResourceImpl {

    private URL contentURL;
    private String authorizationString;

    /**
     * Method to set to content url.
     */

```

```

* @param contentURL the content url.
*/
public void setContentURL(URL contentURL) {
    this.contentURL = contentURL;
}

/**
 * Method to obtain the authorization string.
 *
 * @return the authorization string.
 */
@SuppressWarnings("unused")
public String getAuthorizationString() {
    return authorizationString;
}

/**
 * Method to set the authorization string.
 *
 * @param authorizationString the authorization string.
 */
public void setAuthorizationString(String authorizationString) {
    this.authorizationString = authorizationString;
}

public InputStream getContentStream() throws RegistryException {

    if (!contentModified && contentURL != null && content == null) {
        return getContentStreamFromURL();
    }
    return super.getContentStream();
}

public Object getContent() throws RegistryException {

    if (content != null) {
        if (content instanceof String) {
            // Remote registry put method handles String content in a different manner - this is
            // to reflect that change - to be consistent with embedded registry.
            return RegistryUtils.encodeString((String) content);
        }
        return content;
    }

    if(!contentModified){
        try {

            InputStream is = getContentStreamFromURL();

```

```

    if (is == null) {
        return null;
    }

    ByteArrayOutputStream os = new ByteArrayOutputStream();
    int nextChar;
    while ((nextChar = is.read()) != -1) {
        os.write(nextChar);
    }
    os.flush();
    content = os.toByteArray();
    return content;

} catch (Exception e) {
    throw new RegistryException("Couldn't get content stream", e);
}
}
return null;
}

}

// Method to get content stream from URL.
private InputStream getContentStreamFromURL() throws RegistryException {

    if (contentURL != null) {
        try {
            URLConnection uc =
                new URL(contentURL.toString().replace(" ", "+")).openConnection();
            if (uc instanceof HttpsURLConnection) { //HTTPS URL?
                ((HttpsURLConnection) uc).setHostnameVerifier(new HostnameVerifier() {
                    public boolean verify(String hostname, SSLSession session) {
                        return true;
                    }
                });
            }
            if (authorizationString != null) {
                uc.setRequestProperty("Authorization", authorizationString);
            }
            return uc.getInputStream();

        } catch (IOException e) {
            throw new RegistryException("Couldn't open stream to source URL " + contentURL, e);
        }
    }

    return null;
}
}

```



```

}
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package org.wso2.carbon.registry.core;

/**
 * This represent a resource id. This keep the path which used to identify that resource in the
 * present state in a unique way. In addition to that it keep the more drilled down details of the
 * path, the path id and resource name. If the resource is a collection pathID = REG_PATH_ID(path)
 * name = null If the resource is not a collection pathId = REG_PATH_ID(parentPath(path)) name = the
 * name component of the path id so path = parentPath(path) + "/" + name component of the path.
 */
public class ResourceIDImpl {

    private String path;
    private int pathID;
    private String name;
    private boolean isCollection;

    /**
     * Returning the full path, i.e. parentPath + resourceName
     *
     * @return the path.
     */
    public String getPath() {
        return path;
    }

    /**
     * Setting the full path i.e. parentPath + resourceName
     *
     * @param path the path.
     */

```

```

*/
public void setPath(String path) {
    this.path = path;
}

/**
 * Method to check whether the resource is a collection.
 *
 * @return true, if it is a collection, false otherwise.
 */
public boolean isCollection() {
    return isCollection;
}

/**
 * Method to set whether the resource is a collection.
 *
 * @param collection whether this is a collection or not.
 */
public void setCollection(boolean collection) {
    isCollection = collection;
}

/**
 * Method to get the path id, If the resource is a collection, pathID = REG_PATH_ID(path) name =
 * null If the resource is not a collection, pathId = REG_PATH_ID(parentPath(path))
 *
 * @return the path id.
 */
public int getPathID() {
    return pathID;
}

/**
 * Method to set the path id.
 *
 * @param pathID the path id.
 */
public void setPathID(int pathID) {
    this.pathID = pathID;
}

/**
 * Method to get the name.
 *
 * @return the name.
 */
public String getName() {

```

```

        return name;
    }

    /**
     * Method to set the name.
     *
     * @param name the name.
     */
    public void setName(String name) {
        this.name = name;
    }

    /**
     * The string value of the resource ID = getPath();
     *
     * @return the string value of the resource id.
     */
    public String toString() {
        // logic to convert the id to string for the authorization purpose of UM
        return path;
    }
}
/*
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 */

package org.wso2.carbon.registry.core;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.registry.core.dao.ResourceVersionDAO;
import org.wso2.carbon.registry.core.dataaccess.DataAccessManager;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.jdbc.dataobjects.ResourceDO;
import org.wso2.carbon.registry.core.jdbc.utils.VersionRetriever;

```

```

import java.util.Arrays;

/**
 * Implementation of CollectionImpl, Instance of this class is returned when requested for an early
 * version of some collection.
 */
public class CollectionVersionImpl extends CollectionImpl {

    private ResourceVersionDAO resourceVersionDAO;
    private VersionRetriever versionList;
    private int versionListIndex = 0;

    private static final Log log = LogFactory.getLog(CollectionVersionImpl.class);

    /**
     * Default Constructor. Creates an empty CollectionVersion instance.
     */
    @SuppressWarnings("unused")
    public CollectionVersionImpl() {
        super();
        if (dataAccessManager != null) {
            this.resourceVersionDAO = dataAccessManager.getDAOManager().getResourceVersionDAO();
        }
    }

    /**
     * Constructor a CollectionVersionImpl for a provided path and a resourceDO.
     *
     * @param path    the path of the collection.
     * @param resourceDO the resourceDO instance.
     */
    public CollectionVersionImpl(String path, ResourceDO resourceDO) {
        super(path, resourceDO);
        if (dataAccessManager != null) {
            this.resourceVersionDAO = dataAccessManager.getDAOManager().getResourceVersionDAO();
        }
    }

    /**
     * A copy constructor used to create a shallow-copy of this collection.
     *
     * @param collection the collection of which the copy is created.
     */
    public CollectionVersionImpl(CollectionVersionImpl collection) {
        super(collection);
        this.versionList = collection.versionList;
        this.versionListIndex = collection.versionListIndex;
    }
}

```

```

        this.resourceVersionDAO = collection.resourceVersionDAO;
    }

    public void setDataAccessManager(DataAccessManager dataAccessManager) {
        super.setDataAccessManager(dataAccessManager);
        if (dataAccessManager != null) {
            this.resourceVersionDAO = dataAccessManager.getDAOManager().getResourceVersionDAO();
        }
    }

    /**
     * Method to set the version retriever instance.
     *
     * @param versionList the version retriever.
     */
    public void setVersionList(VersionRetriever versionList) {
        this.versionList = versionList;
    }

    /**
     * Method to set the index of the current collection in the version list
     *
     * @param versionListIndex the index of the current collection in the list.
     */
    public void setVersionListIndex(int versionListIndex) {
        this.versionListIndex = versionListIndex;
    }

    /**
     * Method to return the absolute paths of the children of the collection. All the returning
     * paths will be in the same snapshot as the current collection.
     *
     * @return the array of absolute paths of the children
     * @throws RegistryException if the operation fails.
     */
    public String[] getChildren() throws RegistryException {
        if (getContent() instanceof String[]) {
            return fixPaths((String[])getContent());
        } else {
            return new String[0];
        }
    }

    /**
     * Method to return the paths of the selected range of children.
     *
     * @param start the starting number of children.

```

```

* @param pageLen the number of entries to retrieve.
*
* @return an array of paths of the selected range of children.
* @throws RegistryException if the operation fails.
*/
public String[] getChildren(int start, int pageLen) throws RegistryException {

    setSessionInformation();
    try {
        if (content != null && content instanceof String[]) {
            String childNodes[] = (String[]) content;
            int limit = start + pageLen;
            if (start > childNodes.length) {
                return new String[0];
            }
            if (limit > childNodes.length) {
                limit = childNodes.length;
            }
            return fixPaths(Arrays.copyOfRange(childNodes, start, limit));
        }
        if (resourceVersionDAO == null) {
            String msg = "The data access object for versioned resources has not been created.";
            log.error(msg);
            throw new RegistryException(msg);
        }
        return fixPaths(resourceVersionDAO.getChildPaths(this.getResourceIDImpl(),
            versionList, versionListIndex,
            start, pageLen, snapshotID, dataAccessManager));
    } finally {
        clearSessionInformation();
    }
}

/**
* Method to return the the number of children.
*
* @return the number of children.
* @throws RegistryException if the operation fails.
*/
public int getChildCount() throws RegistryException {
    if (content != null) {
        String[] childPaths = (String[]) content;
        return fixPaths(childPaths).length;
    }
    String[] childPaths = getChildren(0, -1);
    if (childPaths == null) {
        return 0;
    }
}

```

```

        return childPaths.length;
    }

    /**
     * Collection's content is a string array, which contains paths of its children. These paths are
     * loaded on demand to increase performance. It is recommended to use {@link #getChildren()}
     * method to get child paths of a collection, which provides pagination. Calling this method
     * will load all child paths.
     *
     * @return String array of child paths.
     * @throws RegistryException On any error.
     */
    public Object getContent() throws RegistryException {
        if (content == null) {
            String[] childPaths = getChildren(0, -1);
            setContentWithNoUpdate(childPaths);
        }
        return content;
    }
}

```

1.791 org.wso2.carbon.registry.eventing 4.2.1

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```

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 */

package org.wso2.carbon.registry.eventing.services;

import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.util.AXIOMUtil;

```

```

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.context.PrivilegedCarbonContext;
import org.wso2.carbon.event.core.exception.EventBrokerException;
import org.wso2.carbon.event.core.subscription.EventDispatcher;
import org.wso2.carbon.event.core.subscription.Subscription;
import org.wso2.carbon.registry.common.eventing.RegistryEvent;
import org.wso2.carbon.registry.common.utils.RegistryUtil;
import org.wso2.carbon.registry.core.Resource;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.session.UserRegistry;
import org.wso2.carbon.registry.eventing.RegistryEventDispatcher;
import org.wso2.carbon.registry.eventing.RegistryEventingConstants;
import org.wso2.carbon.registry.eventing.events.*;
import org.wso2.carbon.registry.eventing.internal.Utils;

import javax.xml.stream.XMLStreamException;
import java.util.*;
import java.util.concurrent.ArrayBlockingQueue;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.ThreadPoolExecutor;
import java.util.concurrent.TimeUnit;

public class EventingServiceImpl implements EventingService, SubscriptionEmailVerificationService {

    private Map<String, String[]> eventTypeMap;
    private Map<String, List<String>> eventTypeExclusionMap;
    private static boolean initialized = false;
    private static EventDispatcher dispatcher = null;
    private ExecutorService executor = null;
    private String emailIndexStoragePath;

    private static final Log log = LogFactory.getLog(EventingServiceImpl.class);

    public String verifyEmail(String data) {
        String subscriptionId = null;
        String username = null;
        String remoteURL = null;
        String email = null;

        if (data != null) {
            try {
                OMElement dataElement = AXIOMUtil.stringToOM(data);
                Iterator it = dataElement.getChildElements();
                while (it.hasNext()) {
                    OMElement element = (OMElement) it.next();
                    if ("subscriptionId".equals(element.getLocalName())) {
                        subscriptionId = element.getText();
                    }
                }
            }
        }
    }
}

```



```

        } else if ("username".equals(element.getLocalName())) {
            username = element.getText();
        } else if ("remoteURL".equals(element.getLocalName())) {
            remoteURL = element.getText();
        } else if ("email".equals(element.getLocalName())) {
            email = element.getText();
        }
    }
} catch (XMLStreamException e) {
    log.error("Unable to verify e-mail address", e);
    return null;
}
}

try {
    if (username != null || remoteURL != null) {
        throw new UnsupportedOperationException("This method is no longer supported");
    } else {
        Subscription subscription = getSubscription(subscriptionId);
        Map<String, String> subscriptionData = subscription.getProperties();
        subscriptionData.remove(RegistryEventingConstants.NOT_VERIFIED);
        subscription.setProperties(subscriptionData);
        // The updated subscription should be directly done at the subMgr to avoid
        // generating another verification request
        subscription.setId(subscriptionId);
        Utils.getRegistryEventBrokerService().renewSubscription(subscription);
    }
    return email;
} catch (Exception e) {
    log.error("Unable to verify e-mail address", e);
    return null;
}
}

public EventingServiceImpl() {
    try {
        if (initialized) {
            return;
        } else {
            initialized = true;
        }
        eventTypeMap = new TreeMap<String, String[]>();
        eventTypeExclusionMap = new HashMap<String, List<String>>();
        emailIndexPath = "/repository/components/org.wso2.carbon.email-verification/emailIndex";
        registerBuiltInEventTypes();
    } catch (Exception e) {
        log.error("Error initializing Registry Event Broker");
    }
}

```

```

}

public void registerBuiltInEventTypes() {
    registerEventType("update", ResourceUpdatedEvent.EVENT_NAME,
CollectionUpdatedEvent.EVENT_NAME);
    registerEventType("delete", ResourceDeletedEvent.EVENT_NAME,
CollectionDeletedEvent.EVENT_NAME);
    registerEventType("child.deleted", null, ChildDeletedEvent.EVENT_NAME);
    registerEventType("child.created", null, ChildCreatedEvent.EVENT_NAME);
}

public void notify(RegistryEvent event) throws Exception {
    notify(event, null);
}

public void notify(RegistryEvent event, String endpoint) throws Exception {
    notify(event, endpoint, false);
}

private synchronized static void initializeDispatcher() {
    if (dispatcher == null) {
        dispatcher = new RegistryEventDispatcher();
        ((RegistryEventDispatcher)dispatcher).init(Utils.getConfigurationContext());
    }
}

public void notify(RegistryEvent event, String endpoint, boolean doRest)
    throws Exception {
    if (!initialized) {
        return;
    }
    if (executor == null) {
        setupExecutorService();
    }
    if (dispatcher == null) {
        try {
            initializeDispatcher();
        } catch (IllegalStateException ignored) {
            // We throw an Illegal State Exception only if the dispatcher failed to initialize.
            // There is no point in continuing after that. Such a scenario can happen if the
            // very first event was generated during shutdown and we are unable to create
            // corresponding dispatch queues.
            return;
        }
    }
    executor.submit(new Publisher(new DispatchEvent(event, endpoint, doRest)));
}

```

```

public void registerEventType(String typeId, String resourceEvent, String collectionEvent) {
    String[] eventNames = new String[2];
    eventNames[0] = resourceEvent;
    eventNames[1] = collectionEvent;
    eventTypeMap.put(typeId, eventNames);
}

public List<Subscription> getAllSubscriptions() throws EventBrokerException {
    return Utils.getRegistryEventBrokerService().getAllSubscriptions(null);
}

public List<Subscription> getAllSubscriptions(String userName, String remoteURL)
    throws EventBrokerException {
    throw new UnsupportedOperationException("This method is no longer supported");
}

public Map getEventTypes() {
    return eventTypeMap;
}

public String getSubscriptionManagerUrl() {
    return Utils.getDefaultEventingServiceURL();
}

public Subscription getSubscription(String id) {
    try {
        if(id != null && id.contains(";version:")) {
            log.warn("Versioned resources cannot have subscriptions, instead returns the subscription from the actual
resource");
            return
Utils.getRegistryEventBrokerService().getSubscription(RegistryUtil.getResourcePathFromVersionPath(id));
        } else {
            return Utils.getRegistryEventBrokerService().getSubscription(id);
        }
    } catch (EventBrokerException e) {
        log.error("Unable to get subscription for given id: " + id, e);
        return null;
    }
}

private void requestEmailVerification(Subscription subscription,
    String userName, String remoteURL) {
    int tenantId = PrivilegedCarbonContext.getThreadLocalCarbonContext().getTenantId();
    if (executor == null) {
        setupExecutorService();
    }
    if(!subscription.getProperties().isEmpty()){
        executor.submit(new EmailVerifier(subscription, userName, remoteURL, tenantId));
    }
}

```

```

    }
}

private synchronized void setupExecutorService() {
    if (executor == null) {
        executor = new ThreadPoolExecutor(25, 150,
            1000, TimeUnit.NANOSECONDS, new ArrayBlockingQueue<Runnable>(100));
    }
}

public String subscribe(Subscription subscription, String userName, String remoteURL) {
    throw new UnsupportedOperationException("This method is no longer supported");
}

public String subscribe(Subscription subscription) {
    try {
        boolean emailAvailability = isEmailAlreadyAvailable(subscription);
        if ((subscription.getEventSinkURL().startsWith("mailto:") ||
subscription.getEventSinkURL().startsWith("digest:"))
            && !emailAvailability) {
            Map<String, String> subscriptionData = subscription.getProperties();
            subscriptionData.put(RegistryEventConstants.NOT_VERIFIED,
                Boolean.toString(true));
            subscription.setProperties(subscriptionData);
        }
        String subscribe = Utils.getRegistryEventBrokerService().subscribe(subscription);
        requestEmailVerification(subscription, null, null);
        return subscribe;
    } catch (EventBrokerException e) {
        log.error("Unable to add subscription", e);
        return null;
    }
}

private boolean isEmailAlreadyAvailable(Subscription subscription) {
    // if one-time email verification is false or not defined, we do not need to check resource, and we will treat it as
the resource was
    // not available.
    if (Boolean.parseBoolean(System.getProperty("onetime.email.verification", Boolean.toString(false)))) {
        String email = subscription.getEventSinkURL().substring(subscription.getEventSinkURL().indexOf(":") + 1
            , subscription.getEventSinkURL().length());
        try {
            UserRegistry registry = Utils.getRegistryService().getConfigSystemRegistry();
            String emailIndexPath = this.emailIndexStoragePath;
            Resource emailIndexResource;
            if (registry.resourceExists(emailIndexPath)) {
                emailIndexResource = registry.get(emailIndexPath);
                Collection<Object> values = emailIndexResource.getProperties().values();
            }
        }
    }
}

```

```

        for (Iterator it = values.iterator(); it.hasNext(); ) {
            String value = (((ArrayList) (it.next())).toArray())[0].toString();
            if (value.equals(email)) {
                return true;
            }
        }
    } else {
        emailIndexResource = registry.newResource();
        registry.put(emailIndexPath, emailIndexResource);
    }
} catch (RegistryException e) {
    log.error("Unable to check email verification resource", e);
}
}
return false;
}

public Subscription getSubscription(String id, String userName, String remoteURL) {
    throw new UnsupportedOperationException("This method is no longer supported");
}

public boolean unsubscribe(String subscriptionID) {
    try {
        Utils.getRegistryEventBrokerService().unsubscribe(subscriptionID);
        return true;
    } catch (EventBrokerException e) {
        log.error("Unable to unsubscribe using given id: " + subscriptionID, e);
        return false;
    }
}

public boolean unsubscribe(String subscriptionID, String userName, String remoteURL) {
    throw new UnsupportedOperationException("This method is no longer supported");
}

public void registerEventTypeExclusion(String typeId, String path) {
    if (path == null) {
        return;
    }
    List<String> list = eventTypeExclusionMap.get(typeId);
    if (list == null) {
        list = new LinkedList<String>();
    }
    list.add(path);
    eventTypeExclusionMap.put(typeId, list);
}

public boolean isEventTypeExclusionRegistered(String typeId, String path) {

```

```

List<String> list = eventTypeExclusionMap.get(typeId);
if (list == null) {
    return false;
}
for(String s: list) {
    if (path.matches(s)) {
        return true;
    }
}
return false;
}

private static class EmailVerifier implements Runnable {

    private Subscription subscription;
    private String userName;
    private String remoteURL;
    private int tenantId;
    private String tenantDomain;

    public EmailVerifier(Subscription subscription, String userName, String remoteURL,
        int tenantId) {
        this.subscription = subscription;
        this.userName = userName;
        this.remoteURL = remoteURL;
        this.tenantId = PrivilegedCarbonContext.getThreadLocalCarbonContext().getTenantId();
        this.tenantDomain = PrivilegedCarbonContext.getThreadLocalCarbonContext().getTenantDomain();
    }

    @SuppressWarnings("unchecked")
    public void run() {
        PrivilegedCarbonContext.getThreadLocalCarbonContext().setTenantDomain(tenantDomain);
        PrivilegedCarbonContext.getThreadLocalCarbonContext().setTenantId(tenantId, true);
        if (Utils.getEmailVerificationSubscriber() == null) {
            return;
        }
        String eventUrl = subscription.getEventSinkURL();
        String lowerCasedEventUrl=eventUrl.toLowerCase();

        String email = "";
        if (lowerCasedEventUrl.startsWith("digest:")&& lowerCasedEventUrl.contains("mailto")) {
            // extracting the mailto: address form eventsink url like digest://h/mailto:email
            email = eventUrl.substring("digest:".length() +4);
        } // user verification for emails.
        else if(lowerCasedEventUrl.contains("mailto:")) {
            email = eventUrl;
        }
    }
}

```

```

// we are not requesting verifications for user and roles.
else{
    return;
}
email = email.substring("mailto:".length());
Map<String,String> data = new HashMap<String, String>();
data.put("email", email);
data.put("subscriptionId", subscription.getId());
if (userName != null) {
    data.put("username", userName);
}
if (remoteURL != null) {
    data.put("remoteURL", remoteURL);
}
try {
    Utils.getEmailVerificationSubscriber().requestUserVerification(data,
        Utils.getEmailVerifierConfig());
} catch (Exception e) {
    log.error("Unable to create e-mail verification request", e);
}
}
}
}

```

```

private static class Publisher implements Runnable {

```

```

    private DispatchEvent event;

```

```

    public Publisher(DispatchEvent event) {
        this.event = event;
    }

```

```

    public void run() {

```

```

        try {
            // Setup the Carbon Context so that downstream logic can make use of it.
            // At present, the Event Component makes use of the information stored on the Carbon
            // Context when publishing events.

```

```

            PrivilegedCarbonContext.startTenantFlow();

```

```

            try {

```

```

                PrivilegedCarbonContext context =

```

```

                    PrivilegedCarbonContext.getThreadLocalCarbonContext();

```

```

                int tenantId = event.getTenantId();

```

```

                if (tenantId != -1) {

```

```

                    context.setTenantId(tenantId, true);

```

```

                }

```

```

                RegistryEvent.RegistrySession registrySessionDetails =

```

```

                    event.getRegistrySessionDetails();

```

```

                if (registrySessionDetails != null) {

```

```

                    String username = registrySessionDetails.getUsername();

```


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 * under the License.
 *
 */

```
package org.wso2.carbon.registry.extensions.internal;
```

```
import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.impl.builder.StAXOMBuilder;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.osgi.framework.ServiceRegistration;
import org.osgi.service.component.ComponentContext;
import org.wso2.carbon.registry.core.service.RegistryService;
import org.wso2.carbon.registry.core.utils.AuthorizationUtils;
import org.wso2.carbon.user.mgt.UserMgtConstants;
import org.wso2.carbon.utils.CarbonUtils;
```

```
import javax.xml.namespace.QName;
import javax.xml.stream.XMLStreamException;
import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
import java.util.Iterator;
import java.util.Stack;
```

```
/**
```

```
* @scr.component name="org.wso2.carbon.registry.resource.permissions" immediate="true"
* @scr.reference name="registry.service" interface="org.wso2.carbon.registry.core.service.RegistryService"
* cardinality="1..1" policy="dynamic" bind="setRegistryService" unbind="unsetRegistryService"
*/
```

```
@SuppressWarnings({"unused", "JavaDoc"})
```

```
public class RegistryResourcePermissionsServiceComponent {
```

```
    private static Log log = LogFactory.getLog(RegistryResourcePermissionsServiceComponent.class);
    private Stack<ServiceRegistration> serviceRegistrations = new Stack<ServiceRegistration>();
    private RegistryService registryService;
```

```
    protected void activate(ComponentContext context) {
        loadMappings();
```

```

    log.debug("Registry Resource Permissions component is activated");
}

protected void deactivate(ComponentContext context) {

}

protected void setRegistryService(RegistryService registryService) {
    this.registryService = registryService;
}

protected void unsetRegistryService(RegistryService registryService) {
    this.registryService = null;
}

private void loadMappings() {
    String configPath = CarbonUtils.getEtcCarbonConfigDirPath();
    if (configPath != null) {
        configPath += File.separator + "permission-mappings.xml";
        File mappingsXML = new File(configPath);
        if (mappingsXML.exists()) {
            try {
                FileInputStream fileInputStream = new FileInputStream(mappingsXML);
                StAXOMBuilder builder = new StAXOMBuilder(fileInputStream);
                OMElement configElement = builder.getDocumentElement();
                int counter = 100;
                Iterator mappings = configElement.getChildrenWithName(new QName("mapping"));
                while (mappings.hasNext()) {
                    OMElement mapping = (OMElement) mappings.next();
                    String managementPermission =
                        mapping.getAttributeValue(new QName("managementPermission"));
                    String resourcePermission =
                        mapping.getAttributeValue(new QName("resourcePermission"));
                    String[] resourcePaths =
                        mapping.getAttributeValue(new QName("resourcePaths")).split(",");
                    for (String resourcePath : resourcePaths) {
                        AuthorizationUtils.addAuthorizeRoleListener(
                            counter++, resourcePath.trim(), managementPermission,
                            UserMgtConstants.EXECUTE_ACTION,
                            new String[]{resourcePermission});
                    }
                }
            } catch (XMLStreamException e) {
                log.error("Unable to parse permission-mappings.xml", e);
            } catch (IOException e) {
                log.error("Unable to read permission-mappings.xml", e);
            }
        }
    }
}

```

```

    }
  }
}
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 */

```

```
package org.wso2.carbon.registry.extensions.handlers;
```

```

import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.util.AXIOMUtil;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.registry.common.utils.artifact.manager.ArtifactManager;
import org.wso2.carbon.registry.core.*;
import org.wso2.carbon.registry.core.config.RegistryContext;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.jdbc.handlers.Handler;
import org.wso2.carbon.registry.core.jdbc.handlers.RequestContext;
import org.wso2.carbon.registry.core.utils.AuthorizationUtils;
import org.wso2.carbon.registry.core.utils.RegistryUtils;
import org.wso2.carbon.registry.extensions.utils.CommonUtil;
import org.wso2.carbon.user.mgt.UserMgtConstants;

```

```

import javax.xml.namespace.QName;
import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.net.URL;
import java.util.*;

```

```

public class PolicyMediaTypeHandler extends Handler {
    private static final Log log = LogFactory.getLog(PolicyMediaTypeHandler.class);

    private String location = "/policies/";

```

```

private String locationTag = "location";
private OMElement locationConfiguration;

public OMElement getPolicyLocationConfiguration() {
    return locationConfiguration;
}

public void setPolicyLocationConfiguration(OMElement locationConfiguration) throws RegistryException {
    Iterator confElements = locationConfiguration.getChildElements();
    while (confElements.hasNext()) {
        OMElement confElement = (OMElement)confElements.next();
        if (confElement.getQName().equals(new QName(locationTag))) {
            location = confElement.getText();
            if (!location.startsWith(RegistryConstants.PATH_SEPARATOR)) {
                location = RegistryConstants.PATH_SEPARATOR + location;
            }
            if (!location.endsWith(RegistryConstants.PATH_SEPARATOR)) {
                location = location + RegistryConstants.PATH_SEPARATOR;
            }
        }
    }
    this.locationConfiguration = locationConfiguration;
}

public void put(RequestContext requestContext) throws RegistryException {
    if (!CommonUtil.isUpdateLockAvailable()) {
        return;
    }
    CommonUtil.acquireUpdateLock();
    try {
        if (requestContext == null) {
            throw new RegistryException("The request context is not available.");
        }
        String path = requestContext.getResourcePath().getPath();
        Resource resource = requestContext.getResource();
        Registry registry = requestContext.getRegistry();

        Object resourceContentObj = resource.getContent();
        String resourceContent; // here the resource content is url
        if (resourceContentObj instanceof String) {
            resourceContent = (String)resourceContentObj;
            resource.setContent(RegistryUtils.encodeString(resourceContent));
        } else {
            resourceContent = RegistryUtils.decodeBytes((byte[])resourceContentObj);
        }
        try {
            if (registry.resourceExists(path)) {
                Resource oldResource = registry.get(path);

```

```

        byte[] oldContent = (byte[])oldResource.getContent();
        if (oldContent != null && RegistryUtils.decodeBytes(oldContent).equals(resourceContent)) {
            // this will continue adding from the default path.
            return;
        }
    } catch (Exception e) {
        String msg = "Error in comparing the policy content updates. policy path: " + path + ".";
        log.error(msg, e);
        throw new RegistryException(msg, e);
    }
    Object newContent = RegistryUtils.encodeString((String)resourceContent);
    if (newContent != null) {
        InputStream inputStream = new ByteArrayInputStream((byte[])newContent);
        addPolicyToRegistry(requestContext, inputStream);
    }
    ArtifactManager.getArtifactManager().getTenantArtifactRepository().addArtifact(path);
} finally {
    CommonUtil.releaseUpdateLock();
}
}

```

```

public void importResource(RequestContext requestContext) throws RegistryException {
    if (!CommonUtil.isUpdateLockAvailable()) {
        return;
    }
    CommonUtil.acquireUpdateLock();
    try {
        String sourceURL = requestContext.getSourceURL();
        InputStream inputStream;
        try {
            if (sourceURL != null && sourceURL.toLowerCase().startsWith("file:")) {
                String msg = "The source URL must not be file in the server's local file system";
                throw new RegistryException(msg);
            }
            inputStream = new URL(sourceURL).openStream();
        } catch (IOException e) {
            throw new RegistryException("The URL " + sourceURL + " is incorrect.", e);
        }
        addPolicyToRegistry(requestContext, inputStream);
    } finally {
        CommonUtil.releaseUpdateLock();
    }
}

```

```

private void addPolicyToRegistry(RequestContext requestContext, InputStream inputStream) throws
RegistryException {
    Resource policyResource;

```

```

if (requestContext.getResource() == null) {
    policyResource = new ResourceImpl();
    policyResource.setMediaType("application/policy+xml");
} else {
    policyResource = requestContext.getResource();
}
Registry registry = requestContext.getRegistry();
ByteArrayOutputStream outputStream = new ByteArrayOutputStream();
int nextChar;
try {
    while ((nextChar = inputStream.read()) != -1) {
        outputStream.write(nextChar);
    }
    outputStream.flush();
} catch (IOException e) {
    throw new RegistryException("Exception occurred while reading policy content", e);
}

try {
    AXIOMUtil.stringToOM(RegistryUtils.decodeBytes(outputStream.toByteArray())).toString();
} catch (Exception e) {
    throw new RegistryException("The given policy file does not contain valid XML.");
}

String resourcePath = requestContext.getResourcePath().getPath();
String policyFileName =
resourcePath.substring(resourcePath.lastIndexOf(RegistryConstants.PATH_SEPARATOR) + 1);
Registry systemRegistry = CommonUtil.getUnchrootedSystemRegistry(requestContext);
RegistryContext registryContext = requestContext.getRegistryContext();
String commonLocation = getChrootedLocation(registryContext);
if (!systemRegistry.resourceExists(commonLocation)) {
    systemRegistry.put(commonLocation, systemRegistry.newCollection());
}

String policyPath;
if (!resourcePath.startsWith(commonLocation)
    && !resourcePath.equals(RegistryUtils.getAbsolutePath(registryContext,
    RegistryConstants.PATH_SEPARATOR + policyFileName))
    && !resourcePath.equals(RegistryUtils.getAbsolutePath(registryContext,
    RegistryConstants.GOVERNANCE_REGISTRY_BASE_PATH
    + RegistryConstants.PATH_SEPARATOR + policyFileName))) {
    policyPath = resourcePath;
} else {
    policyPath = commonLocation + extractResourceFromURL(policyFileName, ".xml");
}

// CommonUtil.addGovernanceArtifactEntryWithAbsoluteValues(

```

```

//          CommonUtil.getUnchrootedSystemRegistry(requestContext),
//          policyId, policyPath);

String relativeArtifactPath = RegistryUtils.getRelativePath(registry.getRegistryContext(), policyPath);
// adn then get the relative path to the GOVERNANCE_BASE_PATH
relativeArtifactPath = RegistryUtils.getRelativePathToOriginal(relativeArtifactPath,
    RegistryConstants.GOVERNANCE_REGISTRY_BASE_PATH);

Resource newResource;
if (registry.resourceExists(policyPath)) {
    newResource = registry.get(policyPath);
} else {
    newResource = new ResourceImpl();
    Properties properties = policyResource.getProperties();
    if (properties != null) {
        List<String> linkProperties = Arrays.asList(
            RegistryConstants.REGISTRY_LINK,
            RegistryConstants.REGISTRY_USER,
            RegistryConstants.REGISTRY_MOUNT,
            RegistryConstants.REGISTRY_AUTHOR,
            RegistryConstants.REGISTRY_MOUNT_POINT,
            RegistryConstants.REGISTRY_TARGET_POINT,
            RegistryConstants.REGISTRY_ACTUAL_PATH,
            RegistryConstants.REGISTRY_REAL_PATH);
        for (Map.Entry<Object, Object> e : properties.entrySet()) {
            String key = (String) e.getKey();
            if (!linkProperties.contains(key)) {
                newResource.setProperty(key, (List<String>) e.getValue());
            }
        }
    }
}
newResource.setMediaType("application/policy+xml");
String policyId = policyResource.getUUID();
if (policyId == null) {
    // generate a service id
    policyId = UUID.randomUUID().toString();
}
newResource.setUUID(policyId);
newResource.setContent(outputStream.toByteArray());
addPolicyToRegistry(requestContext, policyPath, requestContext.getSourceURL(),
    newResource, registry);
((ResourceImpl)newResource).setPath(relativeArtifactPath);

String symlinkLocation = RegistryUtils.getAbsolutePath(registryContext,
    newResource.getProperty(RegistryConstants.SYMLINK_PROPERTY_NAME));
if (symlinkLocation != null) {
    Resource resource = requestContext.getRegistry().get(symlinkLocation);

```

```

    if (resource != null) {
        String isLink = resource.getProperty("registry.link");
        String mountPoint = resource.getProperty("registry.mountpoint");
        String targetPoint = resource.getProperty("registry.targetpoint");
        String actualPath = resource.getProperty("registry.actualpath");
        if (isLink != null && mountPoint != null && targetPoint != null) {
            symlinkLocation = actualPath + RegistryConstants.PATH_SEPARATOR;
        }
    }
    requestContext.getSystemRegistry().createLink(symlinkLocation + policyFileName, policyPath);
}
requestContext.setResource(newResource);
requestContext.setProcessingComplete(true);
}

/**
 * Method that gets called instructing a policy to be added the registry.
 *
 * @param context the request context for this request.
 * @param path the path to add the resource to.
 * @param url the path from which the resource was imported from.
 * @param resource the resource to be added.
 * @param registry the registry instance to use.
 *
 * @throws RegistryException if the operation failed.
 */
protected void addPolicyToRegistry(RequestContext context, String path, String url,
    Resource resource, Registry registry) throws RegistryException {
    context.setActualPath(path);
    registry.put(path, resource);
}

private String extractResourceFromURL(String policyURL, String suffix) {
    String resourceName = policyURL;
    if (policyURL.lastIndexOf("?") > 0) {
        resourceName = policyURL.substring(0, policyURL.indexOf("?")) + suffix;
    } else if (policyURL.indexOf(".") > 0) {
        resourceName = policyURL.substring(0, policyURL.lastIndexOf(".")) + suffix;
    } else if (!policyURL.endsWith(suffix)) {
        resourceName = policyURL + suffix;
    }
    return resourceName;
}

private String getChrootedLocation(RegistryContext registryContext) {
    return RegistryUtils.getAbsolutePath(registryContext,
        RegistryConstants.GOVERNANCE_REGISTRY_BASE_PATH + location);
}

```



```

}
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 */
package org.wso2.carbon.registry.extensions.handlers.utils;

import com.ibm.wsdl.Constants;
import com.ibm.wsdl.util.xml.DOMUtils;
import com.ibm.wsdl.xml.WSDLReaderImpl;
import org.w3c.dom.Element;
import org.wso2.carbon.registry.extensions.utils.CommonUtil;

import javax.wsdl.Definition;
import javax.wsdl.Import;
import javax.wsdl.WSDLException;
import javax.wsdl.extensions.ExtensibilityElement;
import javax.xml.namespace.QName;
import java.io.File;
import java.util.*;

public class ExWSDLReaderImpl extends WSDLReaderImpl {

    WSDLReaderImpl reader = null;

    public ExWSDLReaderImpl(WSDLReaderImpl reader) {
        this.reader = reader;
    }

    protected Definition parseDefinitions(String documentBaseURI,
                                         Element defEl,
                                         Map importedDefs)
        throws WSDLException {
        Definition def = super.parseDefinitions(documentBaseURI, defEl, importedDefs);

```

```

List<Import> toRemove = new LinkedList<Import>();
Map imports = def.getImports();
if (imports.size() > 0) {
    Iterator iterator = imports.values().iterator();
    for (; iterator.hasNext();) {
        Vector values = (Vector) iterator.next();
        for (Object value : values) {
            Import wsdlImport = (Import) value;
            if (wsdlImport.getDefinition() == null) {
                toRemove.add(wsdlImport);
            }
        }
    }
}
for (Import wsdlImport : toRemove) {
    def.removeImport(wsdlImport);
}
return def;
}

protected Import parseImport(Element importEl,
    Definition def,
    Map importedDefs)
    throws WSDLException {
if (/*CommonUtil.isPathMapExisting()*/true) {
    String location = new File(def.getDocumentBaseURI(),
        DOMUtils.getAttribute(importEl, Constants.ATTR_LOCATION)).toString();
    if (CommonUtil.isImportedArtifactExisting(location)) {
        return new Import() {
            public void setNamespaceURI(String s) {

            }

            public String getNamespaceURI() {
                return null;
            }

            public void setLocationURI(String s) {

            }

            public String getLocationURI() {
                return null;
            }

            public void setDefinition(Definition definition) {

            }
        }
    }
}
}

```

```

public Definition getDefinition() {
    return null;
}

public void setDocumentationElement(Element element) {

}

public Element getDocumentationElement() {
    return null;
}

public void setExtensionAttribute(QName qName, Object o) {

}

public Object getExtensionAttribute(QName qName) {
    return null;
}

public Map getExtensionAttributes() {
    return null;
}

public List getNativeAttributeNames() {
    return null;
}

public void addExtensibilityElement(ExtensibilityElement extensibilityElement) {

}

public ExtensibilityElement removeExtensibilityElement(
    ExtensibilityElement extensibilityElement) {
    return null;
}

public List getExtensibilityElements() {
    return null;
}
};
}
Import anImport = super.parseImport(importEl, def, importedDefs);
CommonUtil.addImportedArtifact(location);
return anImport;
}
return super.parseImport(importEl, def, importedDefs);

```

```

}

public int hashCode() {
    return reader.hashCode();
}

public boolean equals(Object obj) {
    return obj instanceof ExWSDLReaderImpl && reader.equals(obj);
}

public String toString() {
    return reader.toString();
}
}

```

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1.793

org.wso2.carbon.registry.extensions.stub

4.2.0

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1.802 org.wso2.carbon.registry.relations.stub

4.2.0

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1.803 org.wso2.carbon.registry.relations.ui

4.2.0

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1.804 org.wso2.carbon.registry.resource 4.2.0

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*/
```

```
package org.wso2.carbon.registry.resource.beans;
```

```
public class PermissionEntry {  
  
    private String userName;  
    private boolean readAllow;  
    private boolean readDeny;
```



```
private boolean writeAllow;
private boolean writeDeny;
private boolean deleteAllow;
private boolean deleteDeny;
private boolean authorizeAllow;
private boolean authorizeDeny;

public String getUsername() {
    return userName;
}

public void setUsername(String userName) {
    this.userName = userName;
}

public boolean isReadAllow() {
    return readAllow;
}

public void setReadAllow(boolean readAllow) {
    this.readAllow = readAllow;
}

public boolean isReadDeny() {
    return readDeny;
}

public void setReadDeny(boolean readDeny) {
    this.readDeny = readDeny;
}

public boolean isWriteAllow() {
    return writeAllow;
}

public void setWriteAllow(boolean writeAllow) {
    this.writeAllow = writeAllow;
}

public boolean isWriteDeny() {
    return writeDeny;
}

public void setWriteDeny(boolean writeDeny) {
    this.writeDeny = writeDeny;
}

public boolean isDeleteAllow() {
```

```

    return deleteAllow;
}

public void setDeleteAllow(boolean deleteAllow) {
    this.deleteAllow = deleteAllow;
}

public boolean isDeleteDeny() {
    return deleteDeny;
}

public void setDeleteDeny(boolean deleteDeny) {
    this.deleteDeny = deleteDeny;
}

public boolean isAuthorizeAllow() {
    return authorizeAllow;
}

public void setAuthorizeAllow(boolean authorizeAllow) {
    this.authorizeAllow = authorizeAllow;
}

public boolean isAuthorizeDeny() {
    return authorizeDeny;
}

public void setAuthorizeDeny(boolean authorizeDeny) {
    this.authorizeDeny = authorizeDeny;
}
}
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```

```

import edu.umd.cs.findbugs.annotations.SuppressWarnings;

@SuppressWarnings({"EI_EXPOSE_REP", "EI_EXPOSE_REP2"})
public class PermissionBean {

    private boolean putAllowed;

    private boolean deleteAllowed;

    private boolean authorizeAllowed;

    private boolean versionView;

    private String pathWithVersion;

    private String[] userNames;

    private String[] roleNames;

    private PermissionEntry[] userPermissions;

    private PermissionEntry[] rolePermissions;

    public boolean isPutAllowed() {
        return putAllowed;
    }

    public void setPutAllowed(boolean putAllowed) {
        this.putAllowed = putAllowed;
    }

    public boolean isDeleteAllowed() {
        return deleteAllowed;
    }

    public void setDeleteAllowed(boolean deleteAllowed) {
        this.deleteAllowed = deleteAllowed;
    }

    public boolean isAuthorizeAllowed() {
        return authorizeAllowed;
    }

    public void setAuthorizeAllowed(boolean authorizeAllowed) {
        this.authorizeAllowed = authorizeAllowed;
    }
}

```

```

public boolean isVersionView() {
    return versionView;
}

public void setVersionView(boolean versionView) {
    this.versionView = versionView;
}

public String getPathWithVersion() {
    return pathWithVersion;
}

public void setPathWithVersion(String pathWithVersion) {
    this.pathWithVersion = pathWithVersion;
}

public String[] getUserNames() {
    return userNames;
}

public void setUserNames(String[] userNames) {
    this.userNames = userNames;
}

public String[] getRoleNames() {
    return roleNames;
}

public void setRoleNames(String[] roleNames) {
    this.roleNames = roleNames;
}

public PermissionEntry[] getUserPermissions() {
    return userPermissions;
}

public void setUserPermissions(PermissionEntry[] userPermissions) {
    this.userPermissions = userPermissions;
}

public PermissionEntry[] getRolePermissions() {
    return rolePermissions;
}

public void setRolePermissions(PermissionEntry[] rolePermissions) {
    this.rolePermissions = rolePermissions;
}
}

```

```

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 */

```

```
package org.wso2.carbon.registry.resource.services.utils;
```

```

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.registry.core.Collection;
import org.wso2.carbon.registry.core.RegistryConstants;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.session.UserRegistry;

```

```
import java.sql.SQLException;
```

```
public class AddSymbolicLinkUtil {
```

```
    private static final Log log = LogFactory.getLog(AddTextResourceUtil.class);
```

```

    public static void addSymbolicLink (
        UserRegistry userRegistry,
        String parentPath,
        String name,
        String targetPath) throws Exception {

```

```

        String linkResourcePath;
        if (RegistryConstants.ROOT_PATH.equals(parentPath)) {
            linkResourcePath = RegistryConstants.ROOT_PATH + name;
        } else {
            linkResourcePath = parentPath + RegistryConstants.PATH_SEPARATOR + name;
        }

```

```

        if (RegistryConstants.ROOT_PATH.equals(targetPath)) {
            String msg = "Unable to create symbolic link to root.";
            log.error(msg);
            throw new RegistryException(msg);
        }

```

```

    }

    try {
        userRegistry.createLink(linkResourcePath, targetPath);

    } catch (RegistryException e) {
        String msg = "Failed to add symbolic link to path " +
            linkResourcePath + ". " + ((e.getCause() instanceof SQLException) ?
                "" : e.getMessage());
        log.error(msg, e);
        throw new RegistryException(msg, e);
    }
}

}

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 */

package org.wso2.carbon.registry.resource.services.utils;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.CarbonConstants;
import org.wso2.carbon.registry.core.ActionConstants;
import org.wso2.carbon.registry.core.RegistryConstants;
import org.wso2.carbon.registry.core.ResourcePath;
import org.wso2.carbon.registry.core.internal.RegistryCoreServiceComponent;
import org.wso2.carbon.registry.core.config.RegistryConfiguration;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.session.UserRegistry;
import org.wso2.carbon.registry.resource.beans.PermissionBean;
import org.wso2.carbon.registry.resource.beans.PermissionEntry;
import org.wso2.carbon.registry.common.utils.UserUtil;
import org.wso2.carbon.user.core.AuthorizationManager;
import org.wso2.carbon.user.core.UserRealm;

```

```

import org.wso2.carbon.user.core.UserStoreException;
import org.wso2.carbon.user.api.RealmConfiguration;
import org.wso2.carbon.registry.core.utils.AccessControlConstants;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public class PermissionUtil {

    private static final Log log = LogFactory.getLog(PermissionUtil.class);

    public static PermissionBean getPermissions(UserRegistry userRegistry, String path) throws Exception {

        ResourcePath resourcePath = new ResourcePath(path);
        String userName = userRegistry.getUserName();
        PermissionBean permissionsBean = new PermissionBean();
        permissionsBean.setPathWithVersion(resourcePath.getPathWithVersion());
        permissionsBean.setVersionView(!resourcePath.isCurrentVersion());

        UserRealm userRealm = userRegistry.getUserRealm();

        String[] userNames = userRealm.getUserStoreManager().listUsers("*", 100);

        // remove the admin and system
        ArrayList<String> filteredUserNames = new ArrayList<String>();

        RealmConfiguration realmConfig = userRealm.getRealmConfiguration();
        String systemUserName = CarbonConstants.REGISTRY_SYSTEM_USERNAME;
        String adminUserName = realmConfig.getAdminUserName();
        for (String userN: userNames) {
            if (userN.equals(adminUserName) ||
                userN.equals(systemUserName)) {
                continue;
            }
            filteredUserNames.add(userN);
        }

        userNames = filteredUserNames.toArray(new String[filteredUserNames.size()]);

        permissionsBean.setUserNames(userNames);

        String[] roleNames = userRealm.getUserStoreManager().getRoleNames();
        // remove the admin role
        ArrayList<String> filteredRoleNames = new ArrayList<String>();

        String adminRoleName = realmConfig.getAdminRoleName();

```

```

for (String roleN: roleNames) {
    if (roleN.equals(adminRoleName)) {
        continue;
    }
    filteredRoleNames.add(roleN);
}
// adding anonymous role
filteredRoleNames.add(CarbonConstants.REGISTRY_ANONNYMOUS_ROLE_NAME);

roleNames = filteredRoleNames.toArray(new String[filteredRoleNames.size()]);
permissionsBean.setRoleNames(roleNames);

String authorizationPath = path;
if (path.indexOf("?") > 0) {
    authorizationPath = path.split("\\?")[0];
} else if (path.indexOf(RegistryConstants.URL_SEPARATOR) > 0) {
    authorizationPath = path.split("\\;")[0];
}

if (UserUtil.isPutAllowed(userName, authorizationPath, userRegistry)) {
    permissionsBean.setPutAllowed(true);
} else {
    permissionsBean.setPutAllowed(false);
}

if (UserUtil.isDeleteAllowed(userName, authorizationPath, userRegistry)) {
    permissionsBean.setDeleteAllowed(true);
} else {
    permissionsBean.setDeleteAllowed(false);
}

if (UserUtil.isAuthorizeAllowed(userName, authorizationPath, userRegistry)) {
    permissionsBean.setAuthorizeAllowed(true);
} else {
    permissionsBean.setAuthorizeAllowed(false);
}

permissionsBean.setUserPermissions(getUserPermissions(userRealm, path));
permissionsBean.setRolePermissions(getRolePermissions(userRealm, path));

return permissionsBean;
}

private static PermissionEntry[] getUserPermissions(UserRealm userRealm, String path)
    throws UserStoreException {

    Map <String, PermissionEntry> userPermissionMap = new HashMap <String, PermissionEntry>();

```



```

AuthorizationManager authorizer = userRealm.getAuthorizationManager();

RealmConfiguration realmConfig = userRealm.getRealmConfiguration();
String systemUserName = CarbonConstants.REGISTRY_SYSTEM_USERNAME;
String adminUserName = realmConfig.getAdminUserName();
String[] raUsers = authorizer.getExplicitlyAllowedUsersForResource(path, ActionConstants.GET);
for (String raUser : raUsers) {
    if (raUser.equals(systemUserName) || raUser.equals(adminUserName)) {
        continue;
    }
    if (userPermissionMap.containsKey(raUser)) {
        PermissionEntry permission = userPermissionMap.get(raUser);
        permission.setReadAllow(true);
    } else {
        PermissionEntry permission = new PermissionEntry();
        permission.setUserName(raUser);
        permission.setReadAllow(true);
        userPermissionMap.put(raUser, permission);
    }
}

String[] rdUsers = authorizer.getExplicitlyDeniedUsersForResource(path, ActionConstants.GET);
for (String rdUser : rdUsers) {
    if (rdUser.equals(systemUserName) || rdUser.equals(adminUserName)) {
        continue;
    }
    if (userPermissionMap.containsKey(rdUser)) {
        PermissionEntry permission = userPermissionMap.get(rdUser);
        permission.setReadDeny(true);
    } else {
        PermissionEntry permission = new PermissionEntry();
        permission.setUserName(rdUser);
        permission.setReadDeny(true);
        userPermissionMap.put(rdUser, permission);
    }
}

String[] waUsers = authorizer.getExplicitlyAllowedUsersForResource(path, ActionConstants.PUT);
for (String waUser : waUsers) {
    if (waUser.equals(systemUserName) || waUser.equals(adminUserName)) {
        continue;
    }
    if (userPermissionMap.containsKey(waUser)) {
        PermissionEntry permission = userPermissionMap.get(waUser);
        permission.setWriteAllow(true);
    } else {
        PermissionEntry permission = new PermissionEntry();
        permission.setUserName(waUser);
    }
}

```

```

        permission.setWriteAllow(true);
        userPermissionMap.put(waUser, permission);
    }
}

String[] wdUsers = authorizer.getExplicitlyDeniedUsersForResource(path, ActionConstants.PUT);
for (String wdUser : wdUsers) {
    if (wdUser.equals(systemUserName) || wdUser.equals(adminUserName)) {
        continue;
    }
    if (userPermissionMap.containsKey(wdUser)) {
        PermissionEntry permission = userPermissionMap.get(wdUser);
        permission.setWriteDeny(true);
    } else {
        PermissionEntry permission = new PermissionEntry();
        permission.setUserName(wdUser);
        permission.setWriteDeny(true);
        userPermissionMap.put(wdUser, permission);
    }
}

String[] daUsers = authorizer.getExplicitlyAllowedUsersForResource(path, ActionConstants.DELETE);
for (String daUser : daUsers) {
    if (daUser.equals(systemUserName) || daUser.equals(adminUserName)) {
        continue;
    }
    if (userPermissionMap.containsKey(daUser)) {
        PermissionEntry permission = userPermissionMap.get(daUser);
        permission.setDeleteAllow(true);
    } else {
        PermissionEntry permission = new PermissionEntry();
        permission.setUserName(daUser);
        permission.setDeleteAllow(true);
        userPermissionMap.put(daUser, permission);
    }
}

String[] ddUsers = authorizer.getExplicitlyDeniedUsersForResource(path, ActionConstants.DELETE);
for (String ddUser : ddUsers) {
    if (ddUser.equals(systemUserName) || ddUser.equals(adminUserName)) {
        continue;
    }
    if (userPermissionMap.containsKey(ddUser)) {
        PermissionEntry permission = userPermissionMap.get(ddUser);
        permission.setDeleteDeny(true);
    } else {
        PermissionEntry permission = new PermissionEntry();
        permission.setUserName(ddUser);
    }
}

```

```

        permission.setDeleteDeny(true);
        userPermissionMap.put(ddUser, permission);
    }
}

String[] aaUsers = authorizer.
    getExplicitlyAllowedUsersForResource(path, AccessControlConstants.AUTHORIZE);
for (String aaUser : aaUsers) {
    if (aaUser.equals(systemUserName) || aaUser.equals(adminUserName)) {
        continue;
    }
    if (userPermissionMap.containsKey(aaUser)) {
        PermissionEntry permission = userPermissionMap.get(aaUser);
        permission.setAuthorizeAllow(true);
    } else {
        PermissionEntry permission = new PermissionEntry();
        permission.setUserName(aaUser);
        permission.setAuthorizeAllow(true);
        userPermissionMap.put(aaUser, permission);
    }
}

String[] adUsers = authorizer.
    getExplicitlyDeniedUsersForResource(path, AccessControlConstants.AUTHORIZE);
for (String adUser : adUsers) {
    if (adUser.equals(systemUserName) || adUser.equals(adminUserName)) {
        continue;
    }
    if (userPermissionMap.containsKey(adUser)) {
        PermissionEntry permission = userPermissionMap.get(adUser);
        permission.setAuthorizeDeny(true);
    } else {
        PermissionEntry permission = new PermissionEntry();
        permission.setUserName(adUser);
        permission.setAuthorizeDeny(true);
        userPermissionMap.put(adUser, permission);
    }
}

List <PermissionEntry> permissionEntryList =
    new ArrayList <PermissionEntry> (userPermissionMap.values());
return permissionEntryList.toArray(new PermissionEntry[permissionEntryList.size()]);
}

private static PermissionEntry[] getRolePermissions(UserRealm userRealm, String path)
    throws UserStoreException {

```

```
Map <String, PermissionEntry> rolePermissionMap = new HashMap <String, PermissionEntry> ();
```

```
AuthorizationManager authorizer = userRealm.getAuthorizationManager();
```

```
RealmConfiguration realmConfig = userRealm.getRealmConfiguration();
```

```
String adminRoleName = realmConfig.getAdminRoleName();
```

```
String[] raRoles = authorizer.getAllowedRolesForResource(path, ActionConstants.GET);
```

```
for (String raRole : raRoles) {
```

```
    if (raRole.equals(adminRoleName)) {
```

```
        continue;
```

```
    }
```

```
    if (rolePermissionMap.containsKey(raRole)) {
```

```
        PermissionEntry permission = rolePermissionMap.get(raRole);
```

```
        permission.setReadAllow(true);
```

```
    } else {
```

```
        PermissionEntry permission = new PermissionEntry();
```

```
        permission.setUserName(raRole);
```

```
        permission.setReadAllow(true);
```

```
        rolePermissionMap.put(raRole, permission);
```

```
    }
```

```
}
```

```
String[] rdRoles = authorizer.getDeniedRolesForResource(path, ActionConstants.GET);
```

```
for (String rdRole : rdRoles) {
```

```
    if (rolePermissionMap.containsKey(rdRole)) {
```

```
        PermissionEntry permission = rolePermissionMap.get(rdRole);
```

```
        permission.setReadDeny(true);
```

```
    } else {
```

```
        PermissionEntry permission = new PermissionEntry();
```

```
        permission.setUserName(rdRole);
```

```
        permission.setReadDeny(true);
```

```
        rolePermissionMap.put(rdRole, permission);
```

```
    }
```

```
}
```

```
String[] waRoles = authorizer.getAllowedRolesForResource(path, ActionConstants.PUT);
```

```
for (String waRole : waRoles) {
```

```
    if (waRole.equals(adminRoleName)) {
```

```
        continue;
```

```
    }
```

```
    if (rolePermissionMap.containsKey(waRole)) {
```

```
        PermissionEntry permission = rolePermissionMap.get(waRole);
```

```
        permission.setWriteAllow(true);
```

```
    } else {
```

```
        PermissionEntry permission = new PermissionEntry();
```

```
        permission.setUserName(waRole);
```

```
        permission.setWriteAllow(true);
```

```

        rolePermissionMap.put(waRole, permission);
    }
}

String[] wdRoles = authorizer.getDeniedRolesForResource(path, ActionConstants.PUT);
for (String wdRole : wdRoles) {
    if (rolePermissionMap.containsKey(wdRole)) {
        PermissionEntry permission = rolePermissionMap.get(wdRole);
        permission.setWriteDeny(true);
    } else {
        PermissionEntry permission = new PermissionEntry();
        permission.setUserName(wdRole);
        permission.setWriteDeny(true);
        rolePermissionMap.put(wdRole, permission);
    }
}

String[] daRoles = authorizer.getAllowedRolesForResource(path, ActionConstants.DELETE);
for (String daRole : daRoles) {
    if (daRole.equals(adminRoleName)) {
        continue;
    }
    if (rolePermissionMap.containsKey(daRole)) {
        PermissionEntry permission = rolePermissionMap.get(daRole);
        permission.setDeleteAllow(true);
    } else {
        PermissionEntry permission = new PermissionEntry();
        permission.setUserName(daRole);
        permission.setDeleteAllow(true);
        rolePermissionMap.put(daRole, permission);
    }
}

String[] ddRoles = authorizer.getDeniedRolesForResource(path, ActionConstants.DELETE);
for (String ddRole : ddRoles) {
    if (rolePermissionMap.containsKey(ddRole)) {
        PermissionEntry permission = rolePermissionMap.get(ddRole);
        permission.setDeleteDeny(true);
    } else {
        PermissionEntry permission = new PermissionEntry();
        permission.setUserName(ddRole);
        permission.setDeleteDeny(true);
        rolePermissionMap.put(ddRole, permission);
    }
}

String[] aaRoles = authorizer.

```

```

        getAllowedRolesForResource(path, AccessControlConstants.AUTHORIZE);
    for (String aaRole : aaRoles) {
        if (aaRole.equals(adminRoleName)) {
            continue;
        }
        if (rolePermissionMap.containsKey(aaRole)) {
            PermissionEntry permission = rolePermissionMap.get(aaRole);
            permission.setAuthorizeAllow(true);
        } else {
            PermissionEntry permission = new PermissionEntry();
            permission.setUserName(aaRole);
            permission.setAuthorizeAllow(true);
            rolePermissionMap.put(aaRole, permission);
        }
    }
}

```

```
String[] adRoles = authorizer.
```

```

    getDeniedRolesForResource(path, AccessControlConstants.AUTHORIZE);
    for (String adRole : adRoles) {
        if (rolePermissionMap.containsKey(adRole)) {
            PermissionEntry permission = rolePermissionMap.get(adRole);
            permission.setAuthorizeDeny(true);
        } else {
            PermissionEntry permission = new PermissionEntry();
            permission.setUserName(adRole);
            permission.setAuthorizeDeny(true);
            rolePermissionMap.put(adRole, permission);
        }
    }
}

```

```

List <PermissionEntry> permissionEntryList =
    new ArrayList <PermissionEntry> (rolePermissionMap.values());
return permissionEntryList.toArray(new PermissionEntry[permissionEntryList.size()]);
}
}

```

```
/*
```

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*/

```
package org.wso2.carbon.registry.resource.services.utils;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.registry.core.ActionConstants;
import org.wso2.carbon.registry.core.Collection;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.session.UserRegistry;
import org.wso2.carbon.user.core.UserRealm;
import org.wso2.carbon.user.core.UserStoreException;
import org.wso2.carbon.registry.core.utils.AccessControlConstants;
import org.wso2.carbon.registry.common.eventing.RegistryEvent;

@Deprecated
public class AddUserPermissionUtil {

    private static final Log log = LogFactory.getLog(AddUserPermissionUtil.class);

    public static void addUserPermission(
        String pathToAuthorize,
        String userToAuthorize,
        String actionToAuthorize,
        String permissionType) throws Exception {

        throw new UnsupportedOperationException("This operation is no longer supported");

        /*UserRealm userRealm ;
        try {
            UserRegistry userRegistry = CommonUtil.getRegistry();
            userRealm = userRegistry.getUserRealm();
            userRealm.getAuthorizationManager();

        } catch (Exception e) {
            String msg =
                "Couldn't get access control admin for changing authorizations. Caused by: " +
                e.getMessage();
            log.error(msg, e);
            throw new RegistryException(msg, e);
        }

        try {
            String notificationResponse = "The following authorization has been added.";
            if (actionToAuthorize.equals("2")) {
```

```

        if (permissionType.equals("1")) {
            userRealm.getAuthorizationManager().authorizeUser(userToAuthorize, pathToAuthorize,
ActionConstants.GET);
            notificationResponse += " READ: Allowed.";
        } else {
            userRealm.getAuthorizationManager().denyUser(userToAuthorize, pathToAuthorize,
ActionConstants.GET);
            notificationResponse += " READ: Denied.";
        }
    }

    if (actionToAuthorize.equals("3")) {

        if (permissionType.equals("1")) {
            userRealm.getAuthorizationManager().authorizeUser(userToAuthorize, pathToAuthorize,
ActionConstants.PUT);
            notificationResponse += " WRITE: Allowed.";
        } else {
            userRealm.getAuthorizationManager().denyUser(userToAuthorize, pathToAuthorize,
ActionConstants.PUT);
            notificationResponse += " WRITE: Denied.";
        }
    }

    if (actionToAuthorize.equals("4")) {

        if (permissionType.equals("1")) {
            userRealm.getAuthorizationManager().authorizeUser(userToAuthorize, pathToAuthorize,
ActionConstants.DELETE);
            notificationResponse += " DELETE: Allowed.";
        } else {
            userRealm.getAuthorizationManager().denyUser(userToAuthorize, pathToAuthorize,
ActionConstants.DELETE);
            notificationResponse += " DELETE: Denied.";
        }
    }

    if (actionToAuthorize.equals("5")) {

        if (permissionType.equals("1")) {
            userRealm.getAuthorizationManager().authorizeUser(userToAuthorize, pathToAuthorize,
AccessControlConstants.AUTHORIZE);
            notificationResponse += " AUTHORIZE: Allowed.";
        } else {
            userRealm.getAuthorizationManager().denyUser(userToAuthorize, pathToAuthorize,
AccessControlConstants.AUTHORIZE);
            notificationResponse += " AUTHORIZE: Denied.";
        }
    }

```



```

    }

    String message = "Permissions have been added for the user " + userToAuthorize + " on resource " +
        pathToAuthorize + ". " + notificationResponse;
    boolean isResource;
    try {
        isResource = !(CommonUtil.getRegistry().get(pathToAuthorize) instanceof Collection);
    } catch (RegistryException e) {
        isResource = true;
    }
    RegistryEvent<String> event = new RegistryEvent<String>(message);
    if (isResource) {
        event.setTopic(pathToAuthorize + RegistryEvent.TOPIC_SEPARATOR + "ResourceUpdated");
    } else {
        event.setTopic(pathToAuthorize + RegistryEvent.TOPIC_SEPARATOR + "CollectionUpdated");
    }
    event.setTenantId(CommonUtil.getRegistry().getTenantId());
    CommonUtil.notify(event, CommonUtil.getRegistry(), pathToAuthorize);

    String msg = "User authorization performed successfully.";
    log.debug(msg);

    } catch (UserStoreException e) {
        String msg = "Failed to add user permission.";
        log.error(msg, e);
        throw new RegistryException(msg, e);
    }*/
}
}
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*/

package org.wso2.carbon.registry.resource.services.utils;

import org.apache.commons.logging.Log;

```

```

import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.registry.common.eventing.RegistryEvent;
import org.wso2.carbon.registry.core.ActionConstants;
import org.wso2.carbon.registry.core.Collection;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.session.UserRegistry;
import org.wso2.carbon.registry.core.utils.AccessControlConstants;
import org.wso2.carbon.user.api.RealmConfiguration;
import org.wso2.carbon.user.core.AuthorizationManager;
import org.wso2.carbon.user.core.UserRealm;
import org.wso2.carbon.user.core.UserStoreException;

public class ChangeRolePermissionsUtil {

    private static final Log log = LogFactory.getLog(ChangeRolePermissionsUtil.class);

    public static void changeRolePermissions(UserRegistry userRegistry,
        String resourcePath, String permissionString)
        throws Exception {

        AuthorizationManager accessControlAdmin ;
        UserRealm realm;
        try {
            realm = userRegistry.getUserRealm();
            accessControlAdmin = realm.getAuthorizationManager();

        } catch (Exception e) {
            String msg = "Couldn't get access control admin for changing authorizations. Caused by: " + e.getMessage();
            log.error(msg, e);
            throw new RegistryException(msg, e);
        }

        if (!realm.getAuthorizationManager().isUserAuthorized(userRegistry.getUserName(),resourcePath,
            AccessControlConstants.AUTHORIZE)) {
            String msg = userRegistry.getUserName()+" is not allowed to authorize resource " + resourcePath;
            log.error(msg);
            throw new RegistryException(msg);
        }

        try {

            String[] rolePermissions = permissionString.split("\\|");

            for (int i = 0; i < rolePermissions.length; i++) {

                String notificationResponse = "The following changes have been made.";
                if (rolePermissions[i].trim().length() == 0) {
                    continue;
                }
            }
        }
    }
}

```

```

}

String[] permissions = rolePermissions[i].split(":");
String permRole = permissions[0];

RealmConfiguration realmConfig = realm.getRealmConfiguration();
if (!permRole.equals(realmConfig.getAdminRoleName())) {
    accessControlAdmin.clearRoleAuthorization(permRole, resourcePath, ActionConstants.GET);
    accessControlAdmin.clearRoleAuthorization(permRole, resourcePath, ActionConstants.PUT);
    accessControlAdmin.clearRoleAuthorization(permRole, resourcePath, ActionConstants.DELETE);
    accessControlAdmin.clearRoleAuthorization(permRole, resourcePath,
AccessControlConstants.AUTHORIZE);
}

for (int j = 1; j < permissions.length; j++) {
    String[] permission = permissions[j].split("\\^");

    String action = permission[0];
    String checked = permission[1];

    if (action.equals("ra")) {
        if (checked.equals("true")) {
            accessControlAdmin.authorizeRole(permRole, resourcePath, ActionConstants.GET);
            notificationResponse += " READ: Allowed.";
        }
    } else if (action.equals("rd")) {
        if (checked.equals("true")) {
            accessControlAdmin.denyRole(permRole, resourcePath, ActionConstants.GET);
            notificationResponse += " READ: Denied.";
        }
    } else if (action.equals("wa")) {
        if (checked.equals("true")) {
            accessControlAdmin.authorizeRole(permRole, resourcePath, ActionConstants.PUT);
            notificationResponse += " WRITE: Allowed.";
        }
    } else if (action.equals("wd")) {
        if (checked.equals("true")) {
            accessControlAdmin.denyRole(permRole, resourcePath, ActionConstants.PUT);
            notificationResponse += " WRITE: Denied.";
        }
    } else if (action.equals("da")) {
        if (checked.equals("true")) {
            accessControlAdmin.authorizeRole(permRole, resourcePath, ActionConstants.DELETE);
            notificationResponse += " DELETE: Allowed.";
        }
    } else if (action.equals("dd")) {
        if (checked.equals("true")) {
            accessControlAdmin.denyRole(permRole, resourcePath, ActionConstants.DELETE);

```

```

        notificationResponse += " DELETE: Denied.";
    }
} else if (action.equals("aa")) {
    if (checked.equals("true")) {
        accessControlAdmin.authorizeRole(permRole, resourcePath,
AccessControlConstants.AUTHORIZE);
        notificationResponse += " AUTHORIZE: Allowed.";
    }
} else if (action.equals("ad")) {
    if (checked.equals("true")) {
        accessControlAdmin.denyRole(permRole, resourcePath, AccessControlConstants.AUTHORIZE);
        notificationResponse += " AUTHORIZE: Denied.";
    }
}
}
}

String message = "The permissions have been changed for the role " + permRole + " on resource " +
    resourcePath + ". " + notificationResponse;
boolean isResource;
try {
    isResource = !(userRegistry.get(resourcePath) instanceof Collection);
} catch (RegistryException e) {
    isResource = true;
}
RegistryEvent<String> event = new RegistryEvent<String>(message);
if (isResource) {
//    event.setTopic(resourcePath + RegistryEvent.TOPIC_SEPARATOR + "ResourceUpdated");
    event.setTopic(RegistryEvent.TOPIC_SEPARATOR + "ResourceUpdated" + resourcePath);
} else {
//    event.setTopic(resourcePath + RegistryEvent.TOPIC_SEPARATOR + "CollectionUpdated");
    event.setTopic(RegistryEvent.TOPIC_SEPARATOR + "CollectionUpdated" + resourcePath);
}
event.setTenantId(userRegistry.getTenantId());
CommonUtil.notify(event, userRegistry, resourcePath);
}

String msg = "Role authorizations performed successfully.";
log.debug(msg);
} catch (UserStoreException e) {
    String msg = "Couldn't set authorizations. Caused by: " + e.getMessage();
    log.error(msg, e);
    throw new RegistryException(msg, e);
}
}
}
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```

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 */

```
package org.wso2.carbon.registry.resource.services.utils;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.Constants;
import org.wso2.carbon.registry.core.ActionConstants;
import org.wso2.carbon.registry.core.RegistryConstants;
import org.wso2.carbon.registry.core.Collection;
import org.wso2.carbon.registry.core.utils.AccessControlConstants;
import org.wso2.carbon.registry.core.config.RegistryConfiguration;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.internal.RegistryCoreServiceComponent;
import org.wso2.carbon.registry.core.session.UserRegistry;
import org.wso2.carbon.user.core.UserRealm;
import org.wso2.carbon.user.core.AuthorizationManager;
import org.wso2.carbon.user.api.RealmConfiguration;
import org.wso2.carbon.registry.core.config.RegistryConfiguration;
import org.wso2.carbon.registry.common.eventing.RegistryEvent;
```

```
@Deprecated
```

```
public class ChangeUserPermissionsUtil {
```

```
    private static final Log log = LogFactory.getLog(ChangeUserPermissionsUtil.class);
```

```
    public static void changeUserPermissions(String resourcePath, String permissionString)
        throws Exception {
```

```
        throw new UnsupportedOperationException("This operation is no longer supported");
```

```
        /*AuthorizationManager accessControlAdmin ;
```

```
        UserRealm realm;
```

```
        try {
```

```
            UserRegistry userRegistry = CommonUtil.getRegistry();
```

```
            realm = userRegistry.getUserRealm();
```

```
            accessControlAdmin = realm.getAuthorizationManager();
```

```

} catch (Exception e) {
    String msg =
        "Couldn't get access control admin for changing authorizations. Caused by: " +
        e.getMessage();
    log.error(msg, e);
    throw new RegistryException(msg, e);
}

try {

    String[] userPermissions = permissionString.split("\\|");
    for (int i = 0; i < userPermissions.length; i++) {

        String notificationResponse = "The following changes have been made.";
        if (userPermissions[i].trim().length() == 0) {
            continue;
        }

        String[] permissions = userPermissions[i].split(":");
        String permUser = permissions[0];

        RealmConfiguration realmConfig = realm.getRealmConfiguration();
        String systemUserName = CarbonConstants.REGISTRY_SYSTEM_USERNAME;
        String adminUserName = realmConfig.getAdminUserName();
        if (!(permUser.equals(systemUserName) ||
            permUser.equals(adminUserName))) {

            accessControlAdmin.
                clearUserAuthorization(permUser, resourcePath, ActionConstants.GET);
            accessControlAdmin.
                clearUserAuthorization(permUser, resourcePath, ActionConstants.PUT);
            accessControlAdmin.
                clearUserAuthorization(permUser, resourcePath, ActionConstants.DELETE);
            accessControlAdmin.clearUserAuthorization(
                permUser, resourcePath, AccessControlConstants.AUTHORIZE);
        }

        for (int j = 1; j < permissions.length; j++) {
            String[] permission = permissions[j].split("\\^");

            String action = permission[0];
            String checked = permission[1];

            if (action.equals("ra")) {
                if (checked.equals("true")) {
                    accessControlAdmin.authorizeUser(
                        permUser, resourcePath, ActionConstants.GET);
                    notificationResponse += " READ: Allowed.";
                }
            }
        }
    }
}

```

```

    }
} else if (action.equals("rd")) {
    if (checked.equals("true")) {
        accessControlAdmin.denyUser(
            permUser, resourcePath, ActionConstants.GET);
        notificationResponse += " READ: Denied.";
    }
} else if (action.equals("wa")) {
    if (checked.equals("true")) {
        accessControlAdmin.authorizeUser(
            permUser, resourcePath, ActionConstants.PUT);
        notificationResponse += " WRITE: Allowed.";
    }
} else if (action.equals("wd")) {
    if (checked.equals("true")) {
        accessControlAdmin.denyUser(
            permUser, resourcePath, ActionConstants.PUT);
        notificationResponse += " WRITE: Denied.";
    }
} else if (action.equals("da")) {
    if (checked.equals("true")) {
        accessControlAdmin.authorizeUser(
            permUser, resourcePath, ActionConstants.DELETE);
        notificationResponse += " DELETE: Allowed.";
    }
} else if (action.equals("dd")) {
    if (checked.equals("true")) {
        accessControlAdmin.denyUser(
            permUser, resourcePath, ActionConstants.DELETE);
        notificationResponse += " DELETE: Denied.";
    }
} else if (action.equals("aa")) {
    if (checked.equals("true")) {
        accessControlAdmin.authorizeUser(
            permUser, resourcePath, AccessControlConstants.AUTHORIZE);
        notificationResponse += " AUTHORIZE: Allowed.";
    }
} else if (action.equals("ad")) {
    if (checked.equals("true")) {
        accessControlAdmin.denyUser(
            permUser, resourcePath, AccessControlConstants.AUTHORIZE);
        notificationResponse += " AUTHORIZE: Denied.";
    }
}
}
}

```

```

String message = "The permissions have been changed for the user " + permUser + " on resource " +
    resourcePath + ". " + notificationResponse;

```

```

        boolean isResource;
        try {
            isResource = !(CommonUtil.getRegistry().get(resourcePath) instanceof Collection);
        } catch (RegistryException e) {
            isResource = true;
        }
        RegistryEvent<String> event = new RegistryEvent<String>(message);
        if (isResource) {
            event.setTopic(resourcePath + RegistryEvent.TOPIC_SEPARATOR + "ResourceUpdated");
        } else {
            event.setTopic(resourcePath + RegistryEvent.TOPIC_SEPARATOR + "CollectionUpdated");
        }
        event.setTenantId(CommonUtil.getRegistry().getTenantId());
        CommonUtil.notify(event, CommonUtil.getRegistry(), resourcePath);
    }

    String msg = "User authorizations performed successfully.";
    log.debug(msg);

} catch (Exception e) {
    String msg = "Couldn't set authorizations. Caused by: " + e.getMessage();
    log.error(msg, e);
    throw new RegistryException(msg, e);
}*/
}
}
/*
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*/

package org.wso2.carbon.registry.resource.services.utils;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.registry.core.ActionConstants;
import org.wso2.carbon.registry.core.Collection;

```



```

import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.session.UserRegistry;
import org.wso2.carbon.user.core.UserRealm;
import org.wso2.carbon.user.core.UserStoreException;
import org.wso2.carbon.registry.core.utils.AccessControlConstants;
import org.wso2.carbon.registry.common.eventing.RegistryEvent;

public class AddRolePermissionUtil {

    private static final Log log = LogFactory.getLog(AddRolePermissionUtil.class);

    public static void addRolePermission(
        UserRegistry userRegistry,
        String pathToAuthorize,
        String roleToAuthorize,
        String actionToAuthorize,
        String permissionType) throws Exception {

        UserRealm userRealm ;
        try {
            userRealm = userRegistry.getUserRealm();
            userRealm.getAuthorizationManager();
        } catch (Exception e) {
            String msg =
                "Couldn't get access control admin for changing authorizations. Caused by: " +
                e.getMessage();
            log.error(msg, e);
            throw new RegistryException(msg, e);
        }
        if (!userRealm.getAuthorizationManager().isUserAuthorized(userRegistry.getUserName(),pathToAuthorize,
            AccessControlConstants.AUTHORIZE)) {
            String msg = userRegistry.getUserName()+" is not allowed to authorize resource " + pathToAuthorize;
            log.error(msg);
            throw new RegistryException(msg);
        }

        try {
            String notificationResponse = "The following authorization has been added.";
            if (actionToAuthorize.equals("2")) {

                if (permissionType.equals("1")) {
                    userRealm.getAuthorizationManager().authorizeRole(roleToAuthorize, pathToAuthorize,
ActionConstants.GET);
                    notificationResponse += " READ: Allowed.";
                } else {
                    userRealm.getAuthorizationManager().denyRole(roleToAuthorize, pathToAuthorize,
ActionConstants.GET);
                    notificationResponse += " READ: Denied.";
                }
            }
        }
    }
}

```

```

    }
}

if (actionToAuthorize.equals("3")) {

    if (permissionType.equals("1")) {
        userRealm.getAuthorizationManager().authorizeRole(roleToAuthorize, pathToAuthorize,
ActionConstants.PUT);
        notificationResponse += " WRITE: Allowed.";
    } else {
        userRealm.getAuthorizationManager().denyRole(roleToAuthorize, pathToAuthorize,
ActionConstants.PUT);
        notificationResponse += " WRITE: Denied.";
    }
}

if (actionToAuthorize.equals("4")) {

    if (permissionType.equals("1")) {
        userRealm.getAuthorizationManager().authorizeRole(roleToAuthorize, pathToAuthorize,
ActionConstants.DELETE);
        notificationResponse += " DELETE: Allowed.";
    } else {
        userRealm.getAuthorizationManager().denyRole(roleToAuthorize, pathToAuthorize,
ActionConstants.DELETE);
        notificationResponse += " DELETE: Denied.";
    }
}

if (actionToAuthorize.equals("5")) {

    if (permissionType.equals("1")) {
        userRealm.getAuthorizationManager().authorizeRole(roleToAuthorize, pathToAuthorize,
AccessControlConstants.AUTHORIZE);
        notificationResponse += " AUTHORIZE: Allowed.";
    } else {
        userRealm.getAuthorizationManager().denyRole(roleToAuthorize, pathToAuthorize,
AccessControlConstants.AUTHORIZE);
        notificationResponse += " AUTHORIZE: Denied.";
    }
}

String message = "Permissions have been added for the role " + roleToAuthorize + " on resource " +
    pathToAuthorize + ". " + notificationResponse;
boolean isResource;
try {
    isResource = !(userRegistry.get(pathToAuthorize) instanceof Collection);
} catch (RegistryException e) {

```

```

        isResource = true;
    }
    RegistryEvent<String> event = new RegistryEvent<String>(message);
    if (isResource) {
//        event.setTopic(pathToAuthorize + RegistryEvent.TOPIC_SEPARATOR + "ResourceUpdated");
        event.setTopic(RegistryEvent.TOPIC_SEPARATOR + "ResourceUpdated"+pathToAuthorize);
    } else {
//        event.setTopic(pathToAuthorize + RegistryEvent.TOPIC_SEPARATOR + "CollectionUpdated");
        event.setTopic(RegistryEvent.TOPIC_SEPARATOR + "CollectionUpdated"+pathToAuthorize);
    }
    event.setTenantId(userRegistry.getTenantId());
    CommonUtil.notify(event, userRegistry, pathToAuthorize);

    String msg = "Role authorization performed successfully.";
    log.debug(msg);

} catch (UserStoreException e) {
    String msg = "Failed to add role permissions. " + e.getMessage();
    log.error(msg, e);
    throw new RegistryException(msg, e);
}
}
}
}

```

1.805 org.wso2.carbon.registry.resource.stub

4.2.0

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1.806 org.wso2.carbon.registry.resource.ui

4.2.1

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-->
<% @ page contentType="text/html;charset=UTF-8" language="java" pageEncoding="UTF-8" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>

<% @ page import="org.wso2.carbon.registry.resource.ui.processors.AddUserPermissionProcessor" %>
<% @ page import="org.wso2.carbon.registry.common.ui.UIException" %>
<fmt:bundle basename="org.wso2.carbon.registry.resource.ui.i18n.Resources">

<%
String errorMessage = null;
try {
    AddUserPermissionProcessor.process(request, response, config);
} catch (UIException e) {
    errorMessage = e.getMessage();
    response.setStatus(500);
}

if (errorMessage != null) {
%>

    <fmt:message key="error.adding.permission.message"/>.<br/>
<%=errorMessage%>

<% } %>

</fmt:bundle>
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<% @ page contentType="text/html;charset=UTF-8" language="java" pageEncoding="UTF-8" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>

<% @ page import="org.wso2.carbon.registry.resource.ui.processors.ChangeUserPermissionsProcessor" %>
<% @ page import="org.wso2.carbon.registry.common.ui.UIException" %>

<fmt:bundle basename="org.wso2.carbon.registry.resource.ui.i18n.Resources">

<%
    String errorMessage = null;
    try {
        ChangeUserPermissionsProcessor.process(request, response, config);
    } catch (UIException e) {
        errorMessage = e.getMessage();
        response.setStatus(500);
    }

    if (errorMessage != null) {
%>

<fmt:message key="error.adding.permission.message"/>.<br/>
<%=errorMessage%>

<% } %>

</fmt:bundle>
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-->
<% @ page contentType="text/html;charset=UTF-8" language="java" pageEncoding="UTF-8" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>

<% @ page import="org.wso2.carbon.utils.ServerConstants" %>
<% @ page import="org.wso2.carbon.registry.resource.ui.clients.ResourceServiceClient" %>
<% @ page import="org.wso2.carbon.registry.resource.stub.beans.xsd.PermissionBean" %>
<% @ page import="org.wso2.carbon.registry.resource.stub.beans.xsd.PermissionEntry" %>

<%
    String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);

    PermissionBean permissionBean;
    try {
        ResourceServiceClient client = new ResourceServiceClient(cookie, config, session);
        permissionBean = client.getPermissions(request);
    } catch (Exception ignored) {
%>
<fmt:bundle basename="org.wso2.carbon.registry.resource.ui.i18n.Resources">
<script type="text/javascript">
    CARBON.showErrorDialog('<fmt:message key="unable.to.determine.resource.permissions"/>', function() {
        window.location = "../admin/index.jsp";
    }, function() {
        window.location = "../admin/index.jsp";
    });
</script>
</fmt:bundle>
<%
    return;
}
%>

<fmt:bundle basename="org.wso2.carbon.registry.resource.ui.i18n.Resources">

<!-- Hear comes the box1 table -->
<% if (permissionBean.getAuthorizeAllowed() && !permissionBean.getVersionView()) { %>
<div class="box1-head">
    <table cellpadding="0" cellspacing="0" border="0" style="width:100%">
        <tr>
            <td valign="top">

```

```

        <%--<h2 class="sub-heading-permissions"><fmt:message key="permissions"/></h2--%>
        <h2 class="sub-heading-permissions"><fmt:message key="permissions"/></h2>
    </td>
    <td align="right" valign="middle" style="padding-top:3px;" class="box1-head-right">
        <a
onclick="showHideCommon('perIconExpanded');showHideCommon('perIconMinimized');showHideCommon('perE
xpanded');">
            
            
        </a>
    </td>
</tr>
</table>
</div>

<div class="box1-mid" id="perExpanded" style="display:none;">
    <!-- all the content goes here -->

<div class="success-message-pop" id="permissionSuccess" style="display:none;"></div>

<div id="permissionReason" class="validationError" style="display: none;"></div>
<%--<h3><fmt:message key="user.permissions"/></h3>

<div id="userPermissionsDiv" class="userPermissionsDiv leftSpace">

    <h4><fmt:message key="add.new.permissions"/></h4>

    <form theme="simple">
        <div class="importantArea" style="margin-top:10px;">
            <table width="100%" border="0" cellpadding="5" cellspacing="0">
                <tr id="userListRow">
                    <td><fmt:message key="user"/></td>
                    <td>
                        <select id="userToAuthorize" name="userToAuthorize"
                            style="width:100px;">
                            <option value="-select-">-Select-
                        </option>
                        <%
                            String[] users = permissionBean.getUserNames();
                            if (users == null) users = new String[0];
                            // registry UI does not allow to change the admin user
                            for (String regUser : users) {
                                %>
                                <option value="<%=regUser%>"><%=regUser%>
                                </option>
                                <% } %>
                    </td>
                </tr>
            </table>
        </div>
    </form>

```

```

</select> <!--<a href="javascript:toggleFilterRow()"><fmt:message key="filter"/></a-->

</td>
<td align="right"><fmt:message key="action"/></td>
<td>
  <select id="actionToAuthorize" name="actionToAuthorize">
    <option value="1"><fmt:message key="select"/></option>
    <option value="2"><fmt:message key="read"/></option>
    <option value="3"><fmt:message key="write"/></option>
    <option value="4"><fmt:message key="delete"/></option>
    <option value="5"><fmt:message key="authorize"/></option>
  </select>
</td>
<td>
  <input type="radio" id="permissionAllow" name="permissionType" value="1" checked="true"/>
  <fmt:message key="allow"/>
  <input type="radio" id="permissionDeny"
    name="permissionType" value="2"/>
  <fmt:message key="deny"/>
</td>
</tr>
<tr id="addPermissionBtnRow">
  <td colspan="5" align="right" class="importantAreaSeperation"
    style="padding-top:10px;">
    <input type="button" class="button"
      value="<fmt:message key="add.permission"/>"
      onclick="addUserPermission('<%=permissionBean.getPathWithVersion()%>')"/>
  </td>
</tr>
</table>
</div>
</form>
<h4 style="margin-top:10px;"><fmt:message key="defined.user.permissions"/></h4>

<form name="permissions" theme="simple" method="post">
  <input type="hidden" id="pInput" name="permissionInput" value=""/>
  <input type="hidden" name="pathToAuthorize"
    value="<%=permissionBean.getPathWithVersion()%>"/>
  <table width="100%" class="styledLeft" border="0" cellpadding="3" cellspacing="0">
    <tbody>
      <tr class="perRow">
        <td align="left" style="width:120px;" valign="top" class="subTH"><fmt:message key="user"/></td>
        <td colspan="2" align="center" class="subTH"><fmt:message key="read"/></td>
        <td colspan="2" align="center" class="subTH"><fmt:message key="write"/></td>
        <td colspan="2" align="center" class="subTH"><fmt:message key="delete"/></td>
        <td colspan="2" align="center" class="subTH"><fmt:message key="authorize"/></td>
      </tr>
      <tr>
        <td align="center" class="lineSeperationRight middle-header"></td>

```

```

        <td align="center" style="font-weight:normal;" class="middle-header"><fmt:message
key="allow"/></td>
        <td align="center" style="font-weight:normal;"
        class="lineSeperationRight middle-header"><fmt:message key="deny"/>
</td>
        <td align="center" style="font-weight:normal;" class="middle-header"><fmt:message
key="allow"/></td>
        <td align="center" style="font-weight:normal;"
        class="lineSeperationRight middle-header"><fmt:message key="deny"/>
</td>
        <td align="center" style="font-weight:normal;" class="middle-header">Allow</td>
        <td align="center" style="font-weight:normal;"
        class="lineSeperationRight middle-header"><fmt:message key="deny"/>
</td>
        <td align="center" style="font-weight:normal;" class="middle-header"><fmt:message
key="allow"/></td>
        <td align="center" style="font-weight:normal;" class="middle-header"><fmt:message
key="deny"/></td>
</tr>

```

```

<%
    PermissionEntry[] userPermissions = permissionBean.getUserPermissions();
    if (userPermissions != null && userPermissions.length != 0) {
        for (PermissionEntry permission : userPermissions) {
            %>

<tr>
    <td class="lineSeperationRight"><%=permission.getUserName()%>
</td>
    <td width="100"><input type="checkbox" id="<%=permission.getUserName()%>^ra"
        onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^ra',
'<%=permission.getUserName()%>^rd')"
        name="<%=permission.getUserName()%>"
        value="ra" <% if (permission.getReadAllow()) { %>
        checked <% } %>/></td>
    <td width="100" class="lineSeperationRight"><input type="checkbox"
        id="<%=permission.getUserName()%>^rd"
onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^rd', '<%=permission.getUserName()%>^ra'
)"
        name="<%=permission.getUserName()%>"
        value="rd" <% if (permission.getReadDeny()) { %>
        checked <% } %>/></td>
    <td width="100"><input type="checkbox" id="<%=permission.getUserName()%>^wa"
        onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^wa',
'<%=permission.getUserName()%>^wd')"
        name="<%=permission.getUserName()%>"
        value="wa" <% if (permission.getWriteAllow()) { %>

```

```

checked <% } %>/></td>

<td width="100" class="lineSeperationRight"><input type="checkbox"
        id="<%=permission.getUserName()%>^wd"
onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^wd', '<%=permission.getUserName()%>a'
a)"
        name="<%=permission.getUserName()%>"
        value="wd" <% if (permission.getWriteDeny()) { %>
        checked <% } %>/></td>
<td width="100"><input type="checkbox" id="<%=permission.getUserName()%>^da"
        onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^da',
'<%=permission.getUserName()%>^dd'"
        name="<%=permission.getUserName()%>"
        value="da" <% if (permission.getDeleteAllow()) { %>
        checked <% } %>/></td>
<td width="100" class="lineSeperationRight"><input type="checkbox"
        id="<%=permission.getUserName()%>^dd"
onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^dd', '<%=permission.getUserName()%>^da
)"
        name="<%=permission.getUserName()%>"
        value="dd" <% if (permission.getDeleteDeny()) { %>
        checked <% } %>/></td>
<td width="100"><input type="checkbox" id="<%=permission.getUserName()%>^aa"
        onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^aa',
'<%=permission.getUserName()%>^ad'"
        name="<%=permission.getUserName()%>"
        value="aa" <% if (permission.getAuthorizeAllow()) { %>
        checked <% } %>/></td>
<td width="100"><input type="checkbox" id="<%=permission.getUserName()%>^ad"
        onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^ad',
'<%=permission.getUserName()%>^aa'"
        name="<%=permission.getUserName()%>"
        value="ad" <% if (permission.getAuthorizeDeny()) { %>
        checked <% } %>/></td>
</tr>
<% }
}%>
<tr>
<td colspan="9" align="right" class="buttonRow"><input type="button"
        class="button"
        value="<fmt:message key="apply.all.permissions"/>"
onclick="processPermissions('<%=permissionBean.getPathWithVersion()%>');"
        style="margin-top:5px; float:right;"><span
        style="clear:both;"></td>
</tr>
</tbody>
</table>
</form>

```

```

</div>

<h3 style="padding-top:20px;"><fmt:message key="role.permissions"/></h3>--%>

<div id="rolePermissionsDiv" class="rolePermissionsDiv leftSpace">
  <h4><fmt:message key="new.role.permissions"/></h4>

  <form theme="simple">
    <div class="importantArea" style="margin-top:10px;">
      <table width="100%" border="0" cellpadding="5" cellspacing="0">
        <tr>
          <td><fmt:message key="role"/></td>
          <td>
            <select id="roleToAuthorize" name="roleToAuthorize">
              <%
                String[] roles = permissionBean.getRoleNames();
                if (roles == null) roles = new String[0];
                for (String regRole : roles) {
                  %>
                  <option value="<%=regRole%>"><%=regRole%>
                  </option>
                <%
                }
              %>
            </select>

          </td>
          <td align="right"><fmt:message key="action"/></td>
          <td>
            <select id="roleActionToAuthorize" name="actionToAuthorize"
              style="width:100px;">
              <option value="1"><fmt:message key="select"/></option>
              <option value="2"><fmt:message key="read"/></option>
              <option value="3"><fmt:message key="write"/></option>
              <option value="4"><fmt:message key="delete"/></option>
              <option value="5"><fmt:message key="authorize"/></option>
            </select>

          </td>
          <td>
            <input type="radio" id="rolePermissionAllow" name="permissionType"
              value="1" checked="checked"/><fmt:message key="allow"/>
            <input type="radio"
              id="rolePermissionDeny"
              name="permissionType"
              value="2"/><fmt:message key="deny"/>

          </td>
        </tr>
      </table>
    </div>
  </form>

```

```

        <td colspan="5" class="importantAreaSeperation" align="right"
            style="padding-top:10px;"><input type="button" class="button"
                value="<fmt:message key="add.permission"/>"
                onclick="addRolePermission('<%=permissionBean.getPathWithVersion()%>')"/>
            </td>
    </tr>
</table>
</div>
</form>
<h4 style="margin-top:10px;"><fmt:message key="defined.role.permissions"/></h4>

<form name="rolePermissions" theme="simple">
    <input type="hidden" id="pRoleInput" name="permissionInput" value=""/>
    <input type="hidden" name="pathToAuthorize" value="% {path}"/>
    <table width="100%" class="styledLeft" border="0" cellpadding="3" cellspacing="0">
        <tbody>
            <tr class="perRow">
                <td align="left" class="subTH"><fmt:message key="role"/></td>
                <td colspan="2" align="center" class="subTH"><fmt:message key="read"/></td>
                <td colspan="2" align="center" class="subTH"><fmt:message key="write"/></td>
                <td colspan="2" align="center" class="subTH"><fmt:message key="delete"/></td>
                <td colspan="2" align="center" class="subTH"><fmt:message key="authorize"/></td>
            </tr>

            <tr>
                <td class="lineSeperationRight middle-header"></td>
                <td align="center" style="font-weight:normal;" class="middle-header"><fmt:message
                    key="allow"/></td>
                <td align="center" style="font-weight:normal;"
                    class="lineSeperationRight middle-header"><fmt:message key="deny"/>
                </td>
                <td align="center" style="font-weight:normal;" class="middle-header"><fmt:message
                    key="allow"/></td>
                <td align="center" style="font-weight:normal;"
                    class="lineSeperationRight middle-header"><fmt:message key="deny"/>
                </td>
                <td align="center" style="font-weight:normal;" class="middle-header"><fmt:message
                    key="allow"/></td>
                <td align="center" style="font-weight:normal;"
                    class="lineSeperationRight middle-header"><fmt:message key="deny"/>
                </td>
                <td align="center" style="font-weight:normal;" class="middle-header"><fmt:message
                    key="allow"/></td>
                <td align="center" style="font-weight:normal;"
                    class="lineSeperationRight middle-header"><fmt:message key="deny"/>
                </td>
            </tr>
        </tbody>
    </table>
</form>

```



```

        PermissionEntry[] rolePermissions = permissionBean.getRolePermissions();
        if (rolePermissions == null) rolePermissions = new PermissionEntry[0];
        for (PermissionEntry permission : rolePermissions) {
%>

<tr>
    <td class="lineSeperationRight"><%=permission.getUserName()%>
    </td>
    <td><input type="checkbox" id="<%=permission.getUserName()%>^rra"
        onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^rra',
'<%=permission.getUserName()%>^rdd')"
        name="<%=permission.getUserName()%>"
        value="ra" <% if (permission.getReadAllow()) { %> checked <% } %>/>
    </td>
    <td class="lineSeperationRight"><input type="checkbox"
        id="<%=permission.getUserName()%>^rdd"
        onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^rdd',
'<%=permission.getUserName()%>^rra')"
        name="<%=permission.getUserName()%>"
        value="rd" <% if (permission.getReadDeny()) { %>
checked <% } %>/></td>
    <td><input type="checkbox" id="<%=permission.getUserName()%>^rwa"
        onclick="handlePeerCheckbox('<%=permission.getUserName()%>^rwa',
'<%=permission.getUserName()%>^rdd')"
        name="<%=permission.getUserName()%>"
        value="wa" <% if (permission.getWriteAllow()) { %> checked <% } %>/>
    </td>
    <td class="lineSeperationRight"><input type="checkbox"
        id="<%=permission.getUserName()%>^rdd"
        onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^rdd',
'<%=permission.getUserName()%>^rwa')"
        name="<%=permission.getUserName()%>"
        value="wd" <% if (permission.getWriteDeny()) { %>
checked <% } %>/></td>
    <td><input type="checkbox" id="<%=permission.getUserName()%>^rda"
        onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^rda',
'<%=permission.getUserName()%>^rdd')"
        name="<%=permission.getUserName()%>"
        value="da" <% if (permission.getDeleteAllow()) { %> checked <% } %>/>
    </td>
    <td class="lineSeperationRight"><input type="checkbox"
        id="<%=permission.getUserName()%>^rdd"
        onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^rdd',
'<%=permission.getUserName()%>^rda')"
        name="<%=permission.getUserName()%>"
        value="dd" <% if (permission.getDeleteDeny()) { %>
checked <% } %>/></td>
    <td class="lineSeperationRight"><input type="checkbox" id="<%=permission.getUserName()%>^raa"

```

```

        onchange="handlePeerCheckbox('<%=permission.getUserName()%>^raa',
'<%=permission.getUserName()%>^rad')"
        name="<%=permission.getUserName()%>"
        value="aa" <% if (permission.getAuthorizeAllow()) { %>
        checked <% } %>/></td>
    <td class="lineSeperationRight"><input type="checkbox"
        id="<%=permission.getUserName()%>^rad"
        onmouseup="handlePeerCheckbox('<%=permission.getUserName()%>^rad',
'<%=permission.getUserName()%>^raa')"
        name="<%=permission.getUserName()%>"
        value="ad" <% if (permission.getAuthorizeDeny()) { %>
        checked <% } %>/></td>

</tr>
<% } %>
<tr>
    <td colspan="9"><input type="button" class="button"
        value="<fmt:message key="apply.all.permissions"/>"
onmouseup="processRolePermissions('<%=permissionBean.getPathWithVersion()%>');"
        style="margin-top:5px;"/>&nbsp;  <input type="button" class="button"
        value="<fmt:message key="reset"/>"
onmouseup="refreshPermissionsSection('<%=permissionBean.getPathWithVersion()%>');"
        style="margin-top:5px;"/><span
        style="clear:both;"/></td>
</tr>
</tbody>
</table>

</form>
</div>
</div>

<div style="visibility:hidden">
<table id="hiddenFilterBox">
    <tr id="filterRow" style="backgournd:#ffffff">
        <td><fmt:message key="filter"/></td>
        <td>
            <input name id="filterString" name="filterString" style="width:100px;"/>
        </td>
        <td align="right"><fmt:message key="limit"/></td>
        <td>
            <input name id="limit" name="limit" style="width:100px;"/>
        </td>
        <td>
            <input type="button" id="applyFilter" name="applyFilter" value="<fmt:message key="apply.filter"/>"/>
        </td>
    </tr>
</table>

```

```

</table>
</div>

<% } %>
<div style="margin-bottom:10px"></div>
</fmt:bundle>
<!--
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~ software distributed under the License is distributed on an
~ "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
~ KIND, either express or implied. See the License for the
~ specific language governing permissions and limitations
~ under the License.
-->
<% @ page contentType="text/html;charset=UTF-8" language="java" pageEncoding="UTF-8"%>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>

<% @ page import="org.wso2.carbon.registry.resource.ui.processors.ChangeRolePermissionsProcessor" %>
<% @ page import="org.wso2.carbon.registry.common.ui.UIException" %>
<fmt:bundle basename="org.wso2.carbon.registry.resource.ui.i18n.Resources">

<%
String errorMessage = null;
try {
    ChangeRolePermissionsProcessor.process(request, response, config);
} catch (Exception e) {
    errorMessage = e.getMessage();
    response.setStatus(500);
}

if (errorMessage != null) {
%>

<fmt:message key="error.occured.while.adding.role.permission"/>.<br/>
<%=errorMessage%>

<% } %>

</fmt:bundle>

```

```

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~ KIND, either express or implied. See the License for the
~ specific language governing permissions and limitations
~ under the License.
-->
<% @ page contentType="text/html;charset=UTF-8" language="java" pageEncoding="UTF-8"%>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>

<% @ page import="org.wso2.carbon.registry.common.ui.UIException" %>
<% @ page import="org.wso2.carbon.registry.resource.ui.processors.AddRolePermissionsProcessor" %>
<fmt:bundle basename="org.wso2.carbon.registry.resource.ui.i18n.Resources">

    <%
        String errorMessage = null;
        try {
            AddRolePermissionsProcessor.process(request, response, config);
        } catch (UIException e) {
            errorMessage = e.getMessage();
            response.setStatus(500);
        }

        if (errorMessage != null) {
    %>

    <fmt:message key="error.occured.while.adding.role.permission"/>.<br/>
    <%=errorMessage%>

    <% } %>
</fmt:bundle>
/*
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```

```

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

```

```
package org.wso2.carbon.registry.resource.ui.processors;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.registry.common.ui.UIException;
import org.wso2.carbon.registry.resource.ui.clients.ResourceServiceClient;
import org.wso2.carbon.utils.ServerConstants;
```

```
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.ServletConfig;
```

```
public class AddRolePermissionsProcessor {
```

```
    private static final Log log = LogFactory.getLog(AddRolePermissionsProcessor.class);
```

```
    public static void process(
        HttpServletRequest request, HttpServletResponse response, ServletConfig config)
        throws UIException {
```

```
        String pathToAuthorize = request.getParameter("pathToAuthorize");
        String roleToAuthorize = request.getParameter("roleToAuthorize");
        String actionToAuthorize = request.getParameter("actionToAuthorize");
        String permissionType = request.getParameter("permissionType");
```

```
        String cookie = (String) request.
            getSession().getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
```

```
        try {
            ResourceServiceClient client =
                new ResourceServiceClient(cookie, config, request.getSession());
            client.addRolePermission(
                pathToAuthorize, roleToAuthorize, actionToAuthorize, permissionType);
        } catch (Exception e) {
            String msg = "Failed to add new role permission. " + e.getMessage();
            log.error(msg, e);
            throw new UIException(msg, e);
        }
    }
}
```

```

}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

```

```
package org.wso2.carbon.registry.resource.ui.processors;
```

```
import org.wso2.carbon.registry.common.ui.UIException;
import org.wso2.carbon.registry.resource.ui.clients.ResourceServiceClient;
import org.wso2.carbon.utils.ServerConstants;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
```

```
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.ServletConfig;
```

```
@Deprecated
```

```
public class AddUserPermissionProcessor {
```

```
    private static final Log log = LogFactory.getLog(AddUserPermissionProcessor.class);
```

```
    public static void process(
        HttpServletRequest request, HttpServletResponse response, ServletConfig config)
        throws UIException {
```

```
        throw new UnsupportedOperationException("This operation is no longer supported");
```

```
        /*String pathToAuthorize = request.getParameter("pathToAuthorize");
        String userToAuthorize = request.getParameter("userToAuthorize");
        String actionToAuthorize = request.getParameter("actionToAuthorize");
        String permissionType = request.getParameter("permissionType");
```

```
        String cookie = (String) request.
            getSession().getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
```

```

try {
    ResourceServiceClient client =
        new ResourceServiceClient(cookie, config, request.getSession());
    client.addUserPermission(
        pathToAuthorize, userToAuthorize, actionToAuthorize, permissionType);
} catch (Exception e) {
    String msg = "Failed to add new user permission. " + e.getMessage();
    log.error(msg, e);
    throw new UIException(msg, e);
}*/
}
}
/*
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*/

package org.wso2.carbon.registry.resource.ui.processors;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.registry.common.ui.UIException;
import org.wso2.carbon.registry.resource.ui.clients.ResourceServiceClient;
import org.wso2.carbon.utils.ServerConstants;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.ServletConfig;

@Deprecated
public class ChangeUserPermissionsProcessor {

    private static final Log log = LogFactory.getLog(ChangeUserPermissionsProcessor.class);

    public static void process(
        HttpServletRequest request, HttpServletResponse response, ServletConfig config)
        throws UIException {

```

```

throw new UnsupportedOperationException("This operation is no longer supported");

/*String resourcePath = request.getParameter("resourcePath");
String permissionInput = request.getParameter("permissionInput");

String cookie = (String) request.
    getSession().getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);

try {
    ResourceServiceClient client =
        new ResourceServiceClient(cookie, config, request.getSession());
    client.changeUserPermissions(resourcePath, permissionInput);

} catch (Exception e) {
    String msg = "Failed to change user permissions. " + e.getMessage();
    log.error(msg, e);
    throw new UIException(msg, e);
}*/
}
}
/*
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*/

package org.wso2.carbon.registry.resource.ui.processors;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.registry.common.ui.UIException;
import org.wso2.carbon.registry.resource.ui.clients.ResourceServiceClient;
import org.wso2.carbon.utils.ServerConstants;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.ServletConfig;

```



```

public class AddSymbolicLinkProcessor {

    private static final Log log = LogFactory.getLog(AddSymbolicLinkProcessor.class);

    public static void process(
        HttpServletRequest request, HttpServletResponse response, ServletConfig config)
        throws UIException {

        String parentPath = request.getParameter("parentPath");
        String name = request.getParameter("name");
        String targetPath = request.getParameter("targetPath");

        String cookie = (String) request.
            getSession().getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);

        try {
            ResourceServiceClient client =
                new ResourceServiceClient(cookie, config, request.getSession());
            client.addSymbolicLink(parentPath, name, targetPath);
        } catch (Exception e) {
            String msg = "Failed to add symbolic link "+ name + "to the parent collection "
                + parentPath + ". " + e.getMessage();
            log.error(msg, e);
            throw new UIException(e);
        }
    }
}
/*
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 */

package org.wso2.carbon.registry.resource.ui.processors;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

```

```

import org.wso2.carbon.registry.common.ui.UIException;
import org.wso2.carbon.registry.resource.ui.clients.ResourceServiceClient;
import org.wso2.carbon.utils.ServerConstants;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.ServletConfig;

public class ChangeRolePermissionsProcessor {

    private static final Log log = LogFactory.getLog(ChangeRolePermissionsProcessor.class);

    public static void process(
        HttpServletRequest request, HttpServletResponse response, ServletConfig config)
        throws UIException {

        String resourcePath = request.getParameter("resourcePath");
        String permissionInput = request.getParameter("permissionInput");

        String cookie = (String) request.
            getSession().getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);

        try {
            ResourceServiceClient client =
                new ResourceServiceClient(cookie, config, request.getSession());
            client.changeRolePermissions(resourcePath, permissionInput);

        } catch (Exception e) {
            String msg = "Failed to change role permissions. " + e.getMessage();
            log.error(msg, e);
            throw new UIException(msg, e);
        }
    }
}

```

1.807 org.wso2.carbon.registry.search 4.2.1

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1.808 org.wso2.carbon.registry.search.stub

4.2.0

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1.809 org.wso2.carbon.registry.search.ui

4.2.1

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-->
<% @ page contentType="text/html;charset=UTF-8" language="java" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>
<% @ page import="org.wso2.carbon.registry.search.ui.clients.SearchServiceClient" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>
```

```

<%
String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
String[] savedSearchFilterNames = null;
try {
    SearchServiceClient client = new SearchServiceClient(cookie, config, session);
    savedSearchFilterNames = client.getSavedFilters();
} catch (Exception e) {
    response.setStatus(500);
%>
<script type="text/javascript">
    CARBON.showErrorDialog("<%=e.getMessage()%>");
</script>
<%
    return;
}
%>

```

```

<%
String filterName = request.getParameter("filterName");
boolean isDuplicateName = false;
if(savedSearchFilterNames!=null){
    for (String existingFilterName : savedSearchFilterNames) {
        if (existingFilterName != null && existingFilterName.equals(filterName)) {
            isDuplicateName = true;
            break;
        }
    }
}
if (isDuplicateName) {
%>----DuplicateFilterName----<%
} else {
%>----New----<%
}
%>

```

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```

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-->
<% @ page contentType="text/html;charset=UTF-8" language="java" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>

<% @ page import="org.wso2.carbon.registry.common.utils.RegistryUtil" %>
<% @ page import="org.wso2.carbon.registry.common.ui.UIConstants" %>
<carbon:jsi18n
    resourceBundle="org.wso2.carbon.registry.search.ui.i18n.JSResources"
    request="<%=request%" namespace="org.wso2.carbon.registry.search.ui"/>
<script type="text/javascript" src="../../search/js/search.js"></script>
<script type="text/javascript" src="../../registry_common/js/registry_validation.js"></script>

<link rel="stylesheet" type="text/css"
    href="../../resources/css/registry.css"/>
<%
    /*String searchType = (String) request.getSession().getAttribute(UIConstants.SEARCH_TYPE);
    if (searchType == null) searchType = "content";*/
%>

<fmt:bundle basename="org.wso2.carbon.registry.search.ui.i18n.Resources">
<div class="box1-head" style="height:auto;">
<table cellspacing="0" cellpadding="0" border="0" style="width:100%">
<tr>

<td valign="top"><h2 class="sub-headding-search"><fmt:message key="search"/></h2></td>

<td align="right" valign="top" class="expandIconCell">

<a onclick="showSimpleSearch();">


</a>

</td>

</tr>
</table>
</div>
<div class="box1-mid-fill" id="searchMinimized" style="display:none"></div>

```

```

<div class="box1-mid" id="searchExpanded">
  <form action="../search/search.jsp" method="get" style="display:inline;" name="searchForm"
onsubmit="return validateSimpleSearch(">
  <table cellspacing="0" cellpadding="0" border="0" style="width: 100%;"
  class="styledLeft">
    <tbody>
      <tr>
        <td>
          <input type="hidden" name="region" id="region" value="region3"/>
          <input type="hidden" name="item" id="item" value="registry_search_menu"/>
          <input type="text" name="criteria" id="criteria" class="input-text" />
          <select name="searchType" id="searchType" style="display:none">
            <option value="Content">
              <fmt:message key="content"/>
            </option>
            <option value="Tag" selected="selected">
              <fmt:message key="tag"/>
            </option>
          </select>
        </td>
      </tr>
      <tr>
        <td class="buttonRow">
          <input type="submit" class="button"
            value="<fmt:message key="search"/>"
            onclick="javascript:return validateSimpleSearch() ;"/>
          <input type="button" class="button"
            value="<fmt:message key="clear"/>"
            onclick="$('criteria').value = '"/>
        </td>
      </tr>
    </tbody>
  </table>
</form>
</div>
</fmt:bundle>

```

1.810 org.wso2.carbon.registry.server 4.2.0

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1.811 org.wso2.carbon.registry.servlet 4.2.0

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1.812 org.wso2.carbon.relay 4.2.0

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1.814 org.wso2.carbon.relay.module 4.2.0

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```
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 */
```

```
package org.wso2.carbon.relay.module.policy;
```

```
import org.apache.commons.logging.Log;  
import org.apache.commons.logging.LogFactory;  
import org.apache.axis2.description.PolicySubject;  
import org.apache.axis2.AxisFault;  
import org.apache.neethi.Policy;  
import org.apache.neethi.PolicyEngine;  
import org.apache.neethi.All;  
import org.apache.neethi.builders.xml.XmlPrimitiveAssertion;  
import org.apache.axiom.om.OMElement;  
import org.wso2.carbon.relay.module.RelayConfiguration;  
import org.wso2.carbon.relay.RelayConstants;
```

```
import javax.xml.namespace.QName;  
import java.util.Collection;  
import java.util.List;  
import java.util.Iterator;
```

```
public class PolicyProcessor {
```

```
    private static Log log = LogFactory.getLog(PolicyProcessor.class);
```



```

public static RelayConfiguration processPolicy(PolicySubject policySubject) throws AxisFault {

    if (policySubject.getAttachedPolicyComponents().size() != 0) {
        RelayConfiguration relayConfig = new RelayConfiguration();

        Collection topLevelAssertionList = policySubject.getAttachedPolicyComponents();

        handlePolicyComponents(relayConfig, topLevelAssertionList);
        return relayConfig;
    } else {
        return null;
    }
}

private static boolean handlePolicyComponents(RelayConfiguration relayConfiguration,
        Collection topLevelAssertionList) throws AxisFault {
    for (Object topLevelAssertionObject : topLevelAssertionList) {
        if (topLevelAssertionObject instanceof Policy) {
            Policy policy = (Policy) topLevelAssertionObject;

            Collection policyComponents = policy.getPolicyComponents();

            handlePolicyComponents(relayConfiguration, policyComponents);
        } else if (topLevelAssertionObject instanceof XmlPrimitiveAssertion) {

            XmlPrimitiveAssertion t1xa = (XmlPrimitiveAssertion) topLevelAssertionObject;

            QName qName = t1xa.getName();

            // validating the relay assertion
            if (!qName.equals(RelayConstants.RELAY_ASSERTION_QNAME)) {
                return false;
            }

            Policy rpc = PolicyEngine.getPolicy(t1xa.getValue());

            for (Object configAssertion : rpc.getPolicyComponents()) {
                // Validating the relay policy
                if (!(configAssertion instanceof Policy)) {
                    return false;
                }
            }

            Policy cachingPolicy = (Policy) configAssertion;
            List childAssertionsList = cachingPolicy.getPolicyComponents();

            for (Object configData : childAssertionsList) {
                if (!(configData instanceof All)) {
                    handleException("Unexpected relay " +

```

```

        "policy, \"wsp:All\" expected");
    }

    All all = (All) configData;
    List configDataList = all.getPolicyComponents();
    for (Object configDtaObject : configDataList) {
        if (!(configDtaObject instanceof XmlPrimitiveAssertion)) {
            // invalid relay policy
            handleException("Unexpected relay policy " +
                "assertion for the relay module");

        }
        XmlPrimitiveAssertion assertion
            = (XmlPrimitiveAssertion) configDtaObject;

        if (assertion.getName().equals(
            RelayConstants.INCLUDE_HIDDEN_SERVICES_QNAME)) {
            String value = assertion.getValue().getText();
            relayConfiguration.setIncludeHiddenServices(
                Boolean.parseBoolean(value));
        }

        if (assertion.getName().equals(
            RelayConstants.BUILDERS_QNAME) &&
            assertion.getValue() != null) {
            processBuilders(assertion.getValue(), relayConfiguration);
        }

        if (assertion.getName().equals(
            RelayConstants.SERVICES_QNAME) &&
            assertion.getValue() != null) {
            processServices(assertion.getValue(), relayConfiguration);
        }
    }
}
}
} else {
    return false;
}
}
return true;
}

private static boolean processBuilders(OMElement builders, RelayConfiguration configuration) {
    Iterator itr = builders.getChildrenWithName(RelayConstants.MESSAGE_BUILDER_QNAME);

    while (itr.hasNext()) {
        OMElement e = (OMElement) itr.next();
    }
}

```

```

String contentType = e.getAttributeValue(RelayConstants.CONTENT_TYPE_QNAME);
if (contentType == null) {
    return false;
}

String className = e.getAttributeValue(RelayConstants.CLASS_NAME_QNAME);
if (className == null) {
    return false;
}

configuration.addBuilder(contentType, className);

String formatterClass = e.getAttributeValue(RelayConstants.FORMATTER_CLASS_NAME_QNAME);
if (formatterClass != null) {
    configuration.addFormatter(contentType, formatterClass);
}
}
return true;
}

private static boolean processServices(OMElement services, RelayConfiguration configuration) {
    Iterator itr = services.getChildrenWithName(RelayConstants.SERVICE_QNAME);

    while (itr.hasNext()) {
        OMElement e = (OMElement) itr.next();

        configuration.addService(e.getText());
    }

    return true;
}

public static void handleException(String msg) throws AxisFault {
    log.error(msg);
    throw new AxisFault(msg);
}
}

```

1.815 org.wso2.carbon.reporting.api 4.2.0

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1.816 org.wso2.carbon.reporting.core 4.2.1

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1.817 org.wso2.carbon.reporting.stub 4.2.0

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1.818 org.wso2.carbon.reporting.ui 4.2.0

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1.819 org.wso2.carbon.reporting.util 4.2.0

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1.820 org.wso2.carbon.rest.api 4.2.1

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1.826 org.wso2.carbon.roles.mgt 4.2.0

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1.829 org.wso2.carbon.rule.backend 4.2.0

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1.831 org.wso2.carbon.rule.kernel 4.2.0

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1.833 org.wso2.carbon.sample.installer 2.2.1

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*/
package org.wso2.carbon.sample.installer.beans;

import java.util.Arrays;

/**
 * Contains information about a sample.
 */
@SuppressWarnings("unused")
public class SampleInformation {

    private String[] requiredServices = new String[0];
    private String[] serviceEPRs = new String[0];
    private boolean installable;
    private String sampleName;
    private String fileName;

    /**
     * Method to obtain the list of cloud services required to run this sample.
     * @return the list of cloud services required to run this sample.
     */
    public String[] getRequiredServices() {
        return Arrays.copyOf(requiredServices, requiredServices.length);
    }

    /**
     * Method to specify the list of cloud services required to run this sample.
     * @param requiredServices the list of cloud services required to run this sample.
     */
    public void setRequiredServices(String[] requiredServices) {
        if (requiredServices != null) {
            this.requiredServices = Arrays.copyOf(requiredServices, requiredServices.length);
        }
    }

    /**
     * Method to obtain the endpoints of cloud services required to run this sample.
     * @return the endpoints of cloud services required to run this sample.
     */
    public String[] getServiceEPRs() {
        return Arrays.copyOf(serviceEPRs, serviceEPRs.length);
    }

    /**
     * Method to specify the endpoints of cloud services required to run this sample.

```

```

* @param serviceEPRs the endpoints of cloud services required to run this sample.
*/
public void setServiceEPRs(String[] serviceEPRs) {
    if (serviceEPRs != null) {
        this.serviceEPRs = Arrays.copyOf(serviceEPRs, serviceEPRs.length);
    }
}

/**
* Determines whether this sample is installable or not.
* @return true if the sample is installable or false if not.
*/
public boolean isInstallable() {
    return installable;
}

/**
* Method to specify whether this sample is installable or not.
* @param installable whether this sample is installable or not.
*/
public void setInstallable(boolean installable) {
    this.installable = installable;
}

/**
* Method to obtain the name of this sample.
* @return the name of this sample.
*/
public String getSampleName() {
    return sampleName;
}

/**
* Method to specify the name of this sample.
* @param sampleName the name of this sample.
*/
public void setSampleName(String sampleName) {
    this.sampleName = sampleName;
}

/**
* Method to obtain the file name of this sample.
* @return the file name of this sample.
*/
public String getFileName() {
    return fileName;
}

```

```

/**
 * Method to specify the file name of this sample.
 * @param fileName the file name of this sample.
 */
public void setFileName(String fileName) {
    this.fileName = fileName;
}
}
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 */
package org.wso2.carbon.sample.installer.config;

import org.apache.axiom.om.OMElement;

import javax.xml.namespace.QName;
import java.util.Iterator;
import java.util.LinkedList;
import java.util.List;

/**
 * Contains the configuration for all samples
 */
public class SamplesDescConfig {
    private static final String CONFIG_NS = "http://wso2.com/stratos/samples";
    private static final String SAMPLE_ELEMENT_NAME = "sample";

    private List<SampleConfig> sampleConfigs;

    /**
     * Constructs a configuration object for all samples.
     *
     * @param configEle the configuration element

```

```

*/
public SamplesDescConfig(OMEElement configEle) {
    // as the cloud service configs are kept in an order, we use an ordered map.
    sampleConfigs = new LinkedList<SampleConfig>();
    serialize(configEle);
}

private void serialize(OMEElement configEle) {
    Iterator configChildIt = configEle.getChildElements();
    while (configChildIt.hasNext()) {
        Object configChildObj = configChildIt.next();
        if (configChildObj instanceof OMEElement) {
            OMEElement configChildEle = (OMEElement)configChildObj;
            if (new QName(CONFIG_NS, SAMPLE_ELEMENT_NAME, "").
                equals(configChildEle.getQName())) {
                sampleConfigs.add(new SampleConfig(configChildEle));
            }
        }
    }
}

/**
 * Method to obtain the configurations of each individual sample.
 *
 * @return the configurations of each individual sample.
 */
public SampleConfig[] getSampleConfigs() {
    return sampleConfigs.toArray(new SampleConfig[sampleConfigs.size()]);
}

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```

```

package org.wso2.carbon.sample.installer.config;

import org.apache.axiom.om.OMElement;

import javax.xml.namespace.QName;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;

/**
 * Contains a configuration for a sample.
 */
public class SampleConfig {
    private static final String CONFIG_NS = "http://wso2.com/stratos/samples";

    private static final String NAME_ATTRIBUTE_NAME = "name";
    private static final String FILE_NAME_ELEMENT_NAME = "fileName";
    private static final String CLOUD_SERVICES_ELEMENT_NAME = "cloudServices";
    private static final String CLOUD_SERVICE_ELEMENT_NAME = "cloudService";

    private String name;
    private String fileName;
    private List<String> cloudServices;

    /**
     * Constructs a sample configuration object.
     *
     * @param configEle the configuration element
     */
    public SampleConfig(OMElement configEle) {
        cloudServices = new ArrayList<String>();
        serialize(configEle);
    }

    private void serialize(OMElement configEle) {
        Iterator sampleChildIt = configEle.getChildElements();
        name = configEle.getAttributeValue(new QName(null, NAME_ATTRIBUTE_NAME));
        while (sampleChildIt.hasNext()) {
            Object sampleChildObj = sampleChildIt.next();
            if (!(sampleChildObj instanceof OMElement)) {
                continue;
            }
            OMElement sampleChildEle = (OMElement)sampleChildObj;
            if (new QName(CONFIG_NS, FILE_NAME_ELEMENT_NAME, "").
                equals(sampleChildEle.getQName())) {
                fileName = sampleChildEle.getText();
            } else if (new QName(CONFIG_NS, CLOUD_SERVICES_ELEMENT_NAME, "").
                equals(sampleChildEle.getQName())) {

```

```

Iterator cloudServicesChildIt = sampleChildEle.getChildElements();
while (cloudServicesChildIt.hasNext()) {
    Object cloudServiceChildObj = cloudServicesChildIt.next();
    if (!(cloudServiceChildObj instanceof OMElement)) {
        continue;
    }
    OMElement cloudServiceChildEle = (OMElement)cloudServiceChildObj;

    if (new QName(CONFIG_NS, CLOUD_SERVICE_ELEMENT_NAME, "").
        equals(cloudServiceChildEle.getQName())) {
        cloudServices.add(cloudServiceChildEle.getAttributeValue(
            new QName(null, NAME_ATTRIBUTE_NAME)));
    }
}
}
}

/**
 * Method to obtain the file name of the sample.
 *
 * @return the file name of the sample.
 */
public String getFileName() {
    return fileName;
}

/**
 * Method to obtain the list of cloud services used by the sample.
 *
 * @return the list of cloud services used by the sample.
 */
public String[] getCloudServices() {
    return cloudServices.toArray(new String[cloudServices.size()]);
}

/**
 * Method to obtain the name of the sample.
 *
 * @return the name of the sample.
 */
public String getName() {
    return name;
}
}
}
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```

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*
*/

```

```
package org.wso2.carbon.sample.installer.internal;
```

```

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.osgi.service.component.ComponentContext;
import org.wso2.carbon.registry.core.service.RegistryService;
import org.wso2.carbon.sample.installer.utils.Util;
import org.wso2.carbon.user.core.service.RealmService;

```

```

/**
 * The Declarative Service Component for the Sample Installer Module for Stratos.
 *
 * @scr.component name="org.wso2.carbon.sample.installer" immediate="true"
 * @scr.reference name="registry.service"
 * interface="org.wso2.carbon.registry.core.service.RegistryService"
 * cardinality="1..1" policy="dynamic" bind="setRegistryService" unbind="unsetRegistryService"
 * @scr.reference name="user.realm.service.default"
 * interface="org.wso2.carbon.user.core.service.RealmService"
 * cardinality="1..1" policy="dynamic" bind="setRealmService"
 * unbind="unsetRealmService"
 */

```

```
@SuppressWarnings({"JavaDoc", "unused"})
```

```
public class SampleInstallerServiceComponent {
```

```
    private static final Log log = LogFactory.getLog(SampleInstallerServiceComponent.class);
```

```

/**
 * Activates the Registry Kernel bundle.
 *
 * @param context the OSGi component context.
 */

```

```
protected void activate(ComponentContext context) {
```

```
    try {
```



```

        Util.loadSamplesConfiguration();
        Util.setBundleContext(context.getBundleContext());
        log.debug("***** Stratos Sample Installer bundle is activated ***** ");
    } catch (Exception e) {
        log.error("***** Stratos Sample Installer bundle failed to activate ****", e);
    }
}

/**
 * Deactivates the Registry Kernel bundle.
 *
 * @param context the OSGi component context.
 */
protected void deactivate(ComponentContext context) {
    Util.setBundleContext(null);
    log.debug("***** Stratos Sample Installer bundle is deactivated ***** ");
}

/**
 * Method to set the registry service used. This will be used when accessing the registry. This
 * method is called when the OSGi Registry Service is available.
 *
 * @param registryService the registry service.
 */
protected void setRegistryService(RegistryService registryService) {
    Util.setRegistryService(registryService);
}

/**
 * This method is called when the current registry service becomes un-available.
 *
 * @param registryService the current registry service instance, to be used for any
 * cleaning-up.
 */
protected void unsetRegistryService(RegistryService registryService) {
    Util.setRegistryService(null);
}

protected void setRealmService(RealmService realmService) {
    if (log.isDebugEnabled()) {
        log.debug("***** Setting the Realm Service *****");
    }
    Util.setRealmService(realmService);
}

protected void unsetRealmService(RealmService realmService ) {
    Util.setRealmService(null);
}

```

```

}
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 */

```

```
package org.wso2.carbon.sample.installer;
```

```

import org.apache.axiom.attachments.ByteArrayDataSource;
import org.apache.axis2.AxisFault;
import org.apache.axis2.context.MessageContext;
import org.apache.commons.io.FileUtils;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.application.upload.CarbonAppUploader;
import org.wso2.carbon.application.upload.UploadedFileItem;
import org.wso2.carbon.context.PrivilegedCarbonContext;
import org.wso2.carbon.context.RegistryType;
import org.wso2.carbon.feature.mgt.services.CompMgtConstants;
import org.wso2.carbon.registry.core.ActionConstants;
import org.wso2.carbon.registry.core.Registry;
import org.wso2.carbon.registry.core.Resource;
import org.wso2.carbon.registry.core.exceptions.RegistryException;
import org.wso2.carbon.registry.core.utils.RegistryClientUtils;
import org.wso2.carbon.sample.installer.beans.SampleInformation;
import org.wso2.carbon.sample.installer.utils.Util;
import org.wso2.carbon.user.core.UserStoreException;
import org.wso2.carbon.utils.CarbonUtils;

import javax.activation.DataHandler;
import javax.servlet.http.HttpSession;
import java.io.File;
import java.io.IOException;
import java.util.LinkedList;

```

```

import java.util.List;

/**
 * Stratos sample deployer Admin service.
 */
@SuppressWarnings("unused")
public class SampleDeployer extends CarbonAppUploader {

    private static final Log log = LogFactory.getLog(SampleDeployer.class);

    private static final String REGISTRY_SAMPLE_LOCATION = "/samples/";
    private static final String APP_ARCHIVE_EXTENSION = ".car";

    /**
     * Fetches a sample from the registry and deploys it as a CarbonApp
     *
     * @param sampleName Name of the sample to be installed
     *
     * @return true if the operation successfully completed.
     * @throws AxisFault      Thrown if and error occurs while uploading the sample
     * @throws RegistryException Thrown if an error occurs while accessing the Registry
     */
    public boolean deploySample(String sampleName, String tenantDomain) throws AxisFault,
        RegistryException {
        try {
            /*PrivilegedCarbonContext carbonContext =
                PrivilegedCarbonContext.getThreadLocalCarbonContext();
            PrivilegedCarbonContext carbonContextOnMessageContext =
                PrivilegedCarbonContext.getCurrentContext(
                    MessageContext.getCurrentMessageContext());
            carbonContextOnMessageContext.setTenantDomain(tenantDomain, true);
            BundleContext bundleContext = Util.getBundleContext();

            if (bundleContext != null) {
                ServiceTracker tracker =
                    new ServiceTracker(bundleContext,
                        TenantRegistryLoader.class.getName(), null);
                tracker.open();
                Object[] services = tracker.getServices();
                if (services != null) {
                    for (Object service : services) {
                        ((TenantRegistryLoader) service).loadTenantRegistry(
                            carbonContextOnMessageContext.getTenantId());
                    }
                }
                tracker.close();
            }
            carbonContext.setTenantDomain(tenantDomain, true);*/

```

```

PrivilegedCarbonContext.startTenantFlow();
PrivilegedCarbonContext.getCurrentContext().setTenantDomain(tenantDomain, true);
PrivilegedCarbonContext.getCurrentContext().getTenantId(true);

Registry registry = (Registry)
PrivilegedCarbonContext.getCurrentContext().getRegistry(RegistryType.SYSTEM_GOVERNANCE);

int tenantId = Util.getRealmService().getTenantManager().getTenantId(tenantDomain);
String pathToAuthorize = "/_system/governance/policies/policy_service.xml";
Util.getRealmService().getTenantUserRealm(tenantId).
    getAuthorizationManager().authorizeRole("wso2.anonymous.role", pathToAuthorize,
ActionConstants.GET);

Resource sampleFile = (Resource) registry.get(getSamplePath(sampleName));
UploadedFileItem[] fileItems = new UploadedFileItem[1];
fileItems[0] = new UploadedFileItem();
fileItems[0].setDataHandler(
    new DataHandler(new ByteArrayDataSource((byte[]) sampleFile.getContent(),
        "application/octet-stream")));
fileItems[0].setFileName(sampleName + APP_ARCHIVE_EXTENSION);
fileItems[0].setFileType("jar");
uploadApp(fileItems);
return true;
} catch (org.wso2.carbon.registry.api.RegistryException e) {
    throw new RegistryException(e.getMessage(), e);
} catch (org.wso2.carbon.user.api.UserStoreException e) {
    log.error("Failed to set permission", e);
} finally {
    PrivilegedCarbonContext.endTenantFlow();
}

return false;
}

public void setPolicyPermission() {
    try {
        log.info("Setting policy permission for tenant " + getTenantDomain());
        getUserRealm().getAuthorizationManager().
            authorizeRole("wso2.anonymous.role", "/_system/governance/policies",
                ActionConstants.GET);
    } catch (UserStoreException e) {
        e.printStackTrace();
    }
}

private HttpSession getSession() {

```

```

return (HttpSession) MessageContext.getCurrentMessageContext().getProperty(
    CompMgtConstants.COMP_MGT_SERVELT_SESSION);
}

/**
 * Upload a sample from the file system to the registry
 *
 * @param sampleName The name of the sample file to be uploaded to the registry
 * @return true if the operation successfully completed.
 * @throws RegistryException Thrown if an error occurs while accessing the Registry
 */
public boolean uploadSample(String sampleName, String tenantDomain) throws RegistryException {
    try {
        PrivilegedCarbonContext.startTenantFlow();
        PrivilegedCarbonContext.getCurrentContext().setTenantDomain(tenantDomain, true);
        PrivilegedCarbonContext.getCurrentContext().getTenantId(true);

        Registry registry = (Registry)
PrivilegedCarbonContext.getCurrentContext().getRegistry(RegistryType.SYSTEM_GOVERNANCE);
        try {
            if (registry.resourceExists(getSamplePath(sampleName))) {
                return true;
            }
        } catch (Exception ignored) {
            // Ignore any exceptions that may occur in the process, and try to re-upload the sample
            // assuming that it is not already on the registry.
            // Basically continue even though an exception does occur.
        }
        String path = CarbonUtils.getCarbonHome() + File.separator + "samples" + File.separator +
            "bin" + File.separator + sampleName + APP_ARCHIVE_EXTENSION;
        String tenantSpecificPath;
        try {
            long start = System.nanoTime();
            tenantSpecificPath = Util.generateAppArchiveForTenant(path, getSession());
            if (log.isInfoEnabled()) {
                log.info("Generated Sample for Tenant in " +
                    (((System.nanoTime() - start) / 1000) / 1000) + "ms");
            }
        } catch (IOException e) {
            log.error("Failed to generate sample for tenant", e);
            return false;
        }
        try {
            File sampleFile = new File(tenantSpecificPath);
            RegistryClientUtils.importToRegistry(sampleFile, REGISTRY_SAMPLE_LOCATION, registry);
        } finally {
            if (!path.equals(tenantSpecificPath)) {
                try {

```

```

        FileUtils.deleteDirectory(new File(tenantSpecificPath).getParentFile());
    } catch (IOException e) {
        log.warn("Unable to delete temporary file", e);
    }
}
}
} finally {
    // Ultimately cleanup the tenant information before exiting the thread.
    PrivilegedCarbonContext.endTenantFlow();
}
return true;
}

/**
 * Method to obtain information about samples.
 *
 * @return a record containing information on each sample available on the system.
 */
public SampleInformation[] getSampleInformation(String tenantDomain) {
    SampleInformation[] samples = Util.getSampleInformation();

    for (SampleInformation sample : samples) {
        String[] services = sample.getServiceEPRs();
        List<String> serviceList = new LinkedList<String>();
        for (String service : services) {
            serviceList.add(service + "/services/");
        }
        sample.setServiceEPRs(serviceList.toArray(new String[serviceList.size()]));
        String[] serviceNames = sample.getRequiredServices();
        boolean installable = true;
        if (serviceNames.length > 0) {
            int tenantId = PrivilegedCarbonContext.getCurrentContext().getTenantId();
            for (String serviceName : serviceNames) {
                try {
                    if (!Util.isCloudServiceActive(serviceName, tenantId)) {
                        installable = false;
                        break;
                    }
                } catch (Exception ignored) {
                    // If we are unable to determine whether a cloud service is active, we treat
                    // it as inactive.
                    installable = false;
                    break;
                }
            }
        }
        sample.setInstallable(installable);
    }
}

```

```

        return samples;
    }

    // Utility Method to obtain the path at which samples are deployed.
    private String getSamplePath(String sampleName) {
        return REGISTRY_SAMPLE_LOCATION + sampleName + APP_ARCHIVE_EXTENSION;
    }
}

```

1.834 org.wso2.carbon.securevault 4.2.0

1.834.1 Available under license :

```

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 * under the License.
 */
package org.wso2.carbon.securevault;

import org.wso2.securevault.secret.SecretCallbackHandler;

/**
 * Implementation for <code>SecretCallbackHandlerService</code>
 */
public class SecretCallbackHandlerServiceImpl implements SecretCallbackHandlerService {

    private SecretCallbackHandler secretCallbackHandler;

    public SecretCallbackHandler getSecretCallbackHandler() {
        return secretCallbackHandler;
    }

    public void setSecretCallbackHandler(SecretCallbackHandler secretCallbackHandler) {

```

```

    this.secretCallbackHandler = secretCallbackHandler;
  }
}

```

1.835 org.wso2.carbon.security.mgt 4.2.2

1.835.1 Available under license :

```

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-->

<wsp:Policy wsu:Id="SigOnly"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:AsymmetricBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:InitiatorToken>
            <wsp:Policy>
              <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
                <wsp:Policy>
                  <sp:RequireThumbprintReference/>
                  <sp:WssX509V3Token10/>
                    <!-- sp:WssX509V3Token10/ -->
                </wsp:Policy>
              </sp:X509Token>
            </wsp:Policy>
          </sp:InitiatorToken>
          <sp:RecipientToken>
            <wsp:Policy>
              <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                <wsp:Policy>

```



```

<sp:RequireThumbprintReference/>
<sp:WssX509V3Token10/>
    <!-- sp:WssX509V3Token10/ -->
    </wsp:Policy>
    </sp:X509Token>
</wsp:Policy>
</sp:RecipientToken>
<sp:AlgorithmSuite>
    <wsp:Policy>
        <sp:Basic256/>
    </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
    <wsp:Policy>
        <sp:Strict/>
    </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>

</sp:AsymmetricBinding>
<sp:Wss10 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:MustSupportRefKeyIdentifier/>
        <sp:MustSupportRefIssuerSerial/>
    </wsp:Policy>
</sp:Wss10>
<sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <sp:Body/>
</sp:SignedParts>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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```

-->

```
<wsp:Policy wsu:Id="SigEncrSAML11Supporting34"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy">
  <wsp:ExactlyOne>
    <wsp>All>
      <sp:AsymmetricBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:InitiatorToken>
            <wsp:Policy>
              <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
                <wsp:Policy>
                  <sp:RequireThumbprintReference/>
                </wsp:Policy>
              </sp:X509Token>
            </wsp:Policy>
          </sp:InitiatorToken>
          <sp:RecipientToken>
            <wsp:Policy>
              <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                <wsp:Policy>
                  <sp:RequireThumbprintReference/>
                </wsp:Policy>
              </sp:X509Token>
            </wsp:Policy>
          </sp:RecipientToken>
          <sp:AlgorithmSuite>
            <wsp:Policy>
              <sp:Basic256/>
            </wsp:Policy>
          </sp:AlgorithmSuite>
          <sp:Layout>
            <wsp:Policy>
              <sp:Strict/>
            </wsp:Policy>
          </sp:Layout>
          <sp:IncludeTimestamp/>
          <sp:OnlySignEntireHeadersAndBody/>
        </wsp:Policy>
      </sp:AsymmetricBinding>
      <sp:SupportingTokens xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:IssuedToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
            <sp:Issuer>
```

```

        <Address
xmlns="http://www.w3.org/2005/08/addressing">https://localhost:9443/services/wso2carbon-sts</Address>
        </sp:Issuer>
        <sp:RequestSecurityTokenTemplate>
            <t:TokenType xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">http://docs.oasis-
open.org/wss/oasis-wss-saml-token-profile-1.1#SAMLV1.1</t:TokenType>
            <t:KeyType
xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">http://schemas.xmlsoap.org/ws/2005/02/trust/SymmetricKe
y</t:KeyType>
                <t:KeySize xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">256</t:KeySize>
            </sp:RequestSecurityTokenTemplate>
            <wsp:Policy>
                <sp:RequireInternalReference/>
            </wsp:Policy>
        </sp:IssuedToken>
    </wsp:Policy>
</sp:SupportingTokens>
<sp:Wss11 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:MustSupportRefKeyIdentifier/>
        <sp:MustSupportRefIssuerSerial/>
        <sp:MustSupportRefThumbprint/>
        <sp:MustSupportRefEncryptedKey/>
        <sp:RequireSignatureConfirmation/>
    </wsp:Policy>
</sp:Wss11>
<sp:Wss10 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:MustSupportRefKeyIdentifier/>
        <sp:MustSupportRefIssuerSerial/>
    </wsp:Policy>
</sp:Wss10>
<sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <sp:Body/>
</sp:SignedParts>
<sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <sp:Body/>
</sp:EncryptedParts>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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```
<wsp:Policy wsu:Id="SgnOnlyAnonymous"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
  xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:ExactlyOne>
    <wsp>All>
      <sp:SymmetricBinding>
        <wsp:Policy>
          <sp:ProtectionToken>
            <wsp:Policy>
              <sp:X509Token sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                <wsp:Policy>
                  <sp:RequireThumbprintReference/>
                  <sp:WssX509V3Token10/>
                </wsp:Policy>
              </sp:X509Token>
            </wsp:Policy>
          </sp:ProtectionToken>
          <sp:AlgorithmSuite>
            <wsp:Policy>
              <sp:Basic256/>
            </wsp:Policy>
          </sp:AlgorithmSuite>
          <sp:Layout>
            <wsp:Policy>
              <sp:Lax/>
            </wsp:Policy>
          </sp:Layout>
          <sp:IncludeTimestamp/>
          <sp:OnlySignEntireHeadersAndBody/>
        </wsp:Policy>
      </sp:SymmetricBinding>
      <sp:SignedParts>
        <sp:Body/>
      </sp:SignedParts>
      <sp:Wss11>
        <wsp:Policy>
          <sp:MustSupportRefKeyIdentifier/>
        </wsp:Policy>
      </sp:Wss11>
    </wsp>All>
  </wsp:ExactlyOne>
</wsp:Policy>
```

```

    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
    <sp:RequireSignatureConfirmation/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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<wsp:Policy wsu:Id="EncrOnlyAnonymous"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
  xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:SymmetricBinding>
        <wsp:Policy>
          <sp:ProtectionToken>
            <wsp:Policy>
              <sp:X509Token sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                <wsp:Policy>
                  <sp:RequireThumbprintReference/>
                  <sp:WssX509V3Token10/>
                </wsp:Policy>
              </sp:X509Token>
            </wsp:Policy>
          </sp:ProtectionToken>
        </wsp:Policy>
      </sp:SymmetricBinding>
    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>

```

```

    </sp:X509Token>
  </wsp:Policy>
</sp:ProtectionToken>
<sp:AlgorithmSuite>
  <wsp:Policy>
    <sp:Basic256/>
  </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
  <wsp:Policy>
    <sp:Lax/>
  </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:SymmetricBinding>
  <sp:EncryptedParts>
    <sp:Body/>
  </sp:EncryptedParts>
<sp:Wss11>
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
    <sp:RequireSignatureConfirmation/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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 -->

```
<wsp:Policy wsu:Id="IssuedTokenOverTransport_UsernameOverTransport_policy"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy">
  <wsp:ExactlyOne>
    <wsp>All>
      <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:TransportToken>
            <wsp:Policy>
              <sp:HttpsToken RequireClientCertificate="false"/>
            </wsp:Policy>
          </sp:TransportToken>
          <sp:AlgorithmSuite>
            <wsp:Policy>
              <sp:Basic256/>
            </wsp:Policy>
          </sp:AlgorithmSuite>
          <sp:Layout>
            <wsp:Policy>
              <sp:Lax/>
            </wsp:Policy>
          </sp:Layout>
          <sp:IncludeTimestamp/>
        </wsp:Policy>
      </sp:TransportBinding>
      <sp:EndorsingSupportingTokens
        xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:IssuedToken
            sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
            <Issuer xmlns="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
              <Address xmlns="http://www.w3.org/2005/08/addressing">
                https://kirillgdev04/Security_Federation_SecurityTokenService_Indigo/Symmetric.svc/Scenario_1_IssuedTokenOverTransport_UsernameOverTransport</Address>
              </Issuer>
            <sp:RequestSecurityTokenTemplate>
              <t:TokenType xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">
                urn:oasis:names:tc:SAML:1.0:assertion</t:TokenType>
              <t:KeyType xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">
                http://schemas.xmlsoap.org/ws/2005/02/trust/SymmetricKey</t:KeyType>
              <t:KeySize xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">
```

```

                256</t:KeySize>
            </sp:RequestSecurityTokenTemplate>
        <wsp:Policy>
            <sp:RequireInternalReference/>
        </wsp:Policy>
    </sp:IssuedToken>
    <sp:SignedParts>
        <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing"/>
    </sp:SignedParts>
</wsp:Policy>
</sp:EndorsingSupportingTokens>
<sp:Wss10 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:MustSupportRefKeyIdentifier/>
        <sp:MustSupportRefIssuerSerial/>
    </wsp:Policy>
</sp:Wss10>
<sp:Trust10 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:MustSupportIssuedTokens/>
        <sp:RequireClientEntropy/>
        <sp:RequireServerEntropy/>
    </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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-->

<wsp:Policy wsu:Id="SgnEncrUsername"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">

```



```

<wsp:ExactlyOne>
  <wsp>All>
    <sp:SymmetricBinding>
      <wsp:Policy>
        <sp:ProtectionToken>
          <wsp:Policy>
            <sp:X509Token sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
              <wsp:Policy>
                <sp:RequireThumbprintReference/>
                <sp:WssX509V3Token10/>
              </wsp:Policy>
            </sp:X509Token>
          </wsp:Policy>
        </sp:ProtectionToken>
        <sp:AlgorithmSuite>
          <wsp:Policy>
            <sp:Basic256/>
          </wsp:Policy>
        </sp:AlgorithmSuite>
        <sp:Layout>
          <wsp:Policy>
            <sp:Lax/>
          </wsp:Policy>
        </sp:Layout>
        <sp:IncludeTimestamp/>
        <sp:OnlySignEntireHeadersAndBody/>
      </wsp:Policy>
    </sp:SymmetricBinding>
    <sp:SignedParts>
      <sp:Body/>
    </sp:SignedParts>
    <sp:EncryptedParts>
      <sp:Body/>
    </sp:EncryptedParts>
    <sp:SignedSupportingTokens>
      <wsp:Policy>
        <sp:UsernameToken
          sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
          <wsp:Policy>
            <sp:WssUsernameToken10/>
          </wsp:Policy>
        </sp:UsernameToken>
      </wsp:Policy>
    </sp:SignedSupportingTokens>
    <sp:Wss11>
      <wsp:Policy>
        <sp:MustSupportRefKeyIdentifier/>
        <sp:MustSupportRefIssuerSerial/>
      </wsp:Policy>
    </sp:Wss11>
  </wsp>All>
</wsp:ExactlyOne>

```

```

    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
    <sp:RequireSignatureConfirmation/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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<wsp:Policy wsu:Id="SigEncr"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:AsymmetricBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:InitiatorToken>
            <wsp:Policy>
              <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
                <wsp:Policy>
                  <sp:RequireThumbprintReference/>
                </wsp:Policy>
              </sp:X509Token>
            </wsp:Policy>
          </sp:InitiatorToken>

```

```

    <sp:RecipientToken>
      <wsp:Policy>
        <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
    <wsp:Policy>
      <sp:RequireThumbprintReference/>
      </wsp:Policy>
      </sp:X509Token>
    </wsp:Policy>
  </sp:RecipientToken>
  <sp:AlgorithmSuite>
    <wsp:Policy>
      <sp:Basic256/>
    </wsp:Policy>
  </sp:AlgorithmSuite>
  <sp:Layout>
    <wsp:Policy>
      <sp:Strict/>
    </wsp:Policy>
  </sp:Layout>
  <sp:IncludeTimestamp/>
  <sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:AsymmetricBinding>
<sp:Wss11 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
    <sp:RequireSignatureConfirmation/>
  </wsp:Policy>
</sp:Wss11>
<sp:Wss10 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
  </wsp:Policy>
</sp:Wss10>
<sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <sp:Body/>
</sp:SignedParts>
<sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <sp:Body/>
</sp:EncryptedParts>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>

```

```

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<wsp:Policy wsu:Id="SecConSgnEncr"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
  xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:ExactlyOne>
    <wsp>All>
      <sp:SymmetricBinding>
        <wsp:Policy>
          <sp:ProtectionToken>
            <wsp:Policy>
              <sp:SecureConversationToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
                <wsp:Policy>
                  <sp:BootstrapPolicy>
                    <wsp:Policy>
                      <sp:AsymmetricBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
                        <wsp:Policy>
                          <sp:InitiatorToken>
                            <wsp:Policy>
                              <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                                <wsp:Policy>
                                  <sp:RequireThumbprintReference/>
                                </wsp:Policy>
                              </sp:X509Token>
                            </wsp:Policy>
                          </sp:InitiatorToken>
                        <sp:RecipientToken>
                          <wsp:Policy>
                            <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">

```

```

<wsp:Policy>
    <sp:RequireThumbprintReference/>
</wsp:Policy>
</sp:X509Token>
</wsp:Policy>
</sp:RecipientToken>
<sp:AlgorithmSuite>
    <wsp:Policy>
        <sp:Basic256/>
    </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
    <wsp:Policy>
        <sp:Strict/>
    </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:AsymmetricBinding>
<sp:Wss10 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:MustSupportRefKeyIdentifier/>
        <sp:MustSupportRefIssuerSerial/>
    </wsp:Policy>
</sp:Wss10>
<sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <sp:Body/>
</sp:SignedParts>
<sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <sp:Body/>
</sp:EncryptedParts>
</wsp:Policy>
</sp:BootstrapPolicy>
</wsp:Policy>
</sp:SecureConversationToken>
</wsp:Policy>
</sp:ProtectionToken>
<sp:AlgorithmSuite>
    <wsp:Policy>
        <sp:Basic256/>
    </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
    <wsp:Policy>
        <sp:Lax/>
    </wsp:Policy>
</sp:Layout>

```

```

    <sp:IncludeTimestamp/>
    <sp:OnlySignEntireHeadersAndBody/>
  </wsp:Policy>
</sp:SymmetricBinding>
<sp:SignedParts>
  <sp:Body/>
</sp:SignedParts>
<sp:EncryptedParts>
  <sp:Body/>
</sp:EncryptedParts>
<sp:Wss11>
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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-->

<wsp:Policy wsu:Id="SecConEncrOnlyAnonymous"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"

```

```

xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
<wsp:ExactlyOne>
  <wsp>All>
    <sp:SymmetricBinding>
      <wsp:Policy>
        <sp:ProtectionToken>
          <wsp:Policy>
            <sp:SecureConversationToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
          <wsp:Policy>
            <sp:BootstrapPolicy>
              <wsp:Policy>
                <sp:SymmetricBinding>
                  <wsp:Policy>
                    <sp:ProtectionToken>
                      <wsp:Policy>
                        <sp:X509Token sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                          <wsp:Policy>
                            <sp:RequireThumbprintReference/>
                            <sp:WssX509V3Token10/>
                          </wsp:Policy>
                        </sp:X509Token>
                      </wsp:Policy>
                    </sp:ProtectionToken>
                  <sp:AlgorithmSuite>
                    <wsp:Policy>
                      <sp:Basic256/>
                    </wsp:Policy>
                  </sp:AlgorithmSuite>
                <sp:Layout>
                  <wsp:Policy>
                    <sp:Lax/>
                  </wsp:Policy>
                </sp:Layout>
              <sp:IncludeTimestamp/>
              <sp:OnlySignEntireHeadersAndBody/>
            </wsp:Policy>
          </sp:SymmetricBinding>
        <sp:SignedParts>
          <sp:Body/>
        </sp:SignedParts>
        <sp:EncryptedParts>
          <sp:Body/>
        </sp:EncryptedParts>
      <sp:Wss11>
        <wsp:Policy>
          <sp:MustSupportRefKeyIdentifier/>
          <sp:MustSupportRefIssuerSerial/>

```

```

    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
    <sp:RequireSignatureConfirmation/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:Policy>
</sp:BootstrapPolicy>
</wsp:Policy>
</sp:SecureConversationToken>
</wsp:Policy>
</sp:ProtectionToken>
<sp:AlgorithmSuite>
  <wsp:Policy>
    <sp:Basic256/>
  </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
  <wsp:Policy>
    <sp:Lax/>
  </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:SymmetricBinding>
<sp:SignedParts>
  <sp:Body/>
</sp:SignedParts>
<sp:EncryptedParts>
  <sp:Body/>
</sp:EncryptedParts>
<sp:Wss11>
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>

```



```

    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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-->

<wsp:Policy wsu:Id="SigEncrSAML20"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:AsymmetricBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:InitiatorToken>
            <wsp:Policy>
              <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
                <wsp:Policy>
                  <sp:RequireThumbprintReference/>
                </wsp:Policy>
              </sp:X509Token>
            </wsp:Policy>
          </sp:InitiatorToken>
          <sp:RecipientToken>
            <wsp:Policy>
              <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                <wsp:Policy>
                  <sp:RequireThumbprintReference/>
                </wsp:Policy>
              </sp:X509Token>
            </wsp:Policy>
          </sp:RecipientToken>
        </sp:AsymmetricBinding>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>

```

```

        </sp:X509Token>
    </wsp:Policy>
</sp:RecipientToken>
<sp:AlgorithmSuite>
    <wsp:Policy>
        <sp:Basic256/>
    </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
    <wsp:Policy>
        <sp:Strict/>
    </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:AsymmetricBinding>
<sp:SupportingTokens xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:IssuedToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
            <sp:Issuer>
                <Address
xmlns="http://www.w3.org/2005/08/addressing">https://localhost:9443/services/wso2carbon-sts</Address>
            </sp:Issuer>
            <sp:RequestSecurityTokenTemplate>
                <t:TokenType
xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">urn:oasis:names:tc:SAML:2.0:assertion</t:TokenType>
                <t:KeyType
xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">http://schemas.xmlsoap.org/ws/2005/02/trust/SymmetricKey</t:KeyType>
                <t:KeySize xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">256</t:KeySize>
                <t:Claims Dialect="http://wso2.org/claims"
                    xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust"
                    xmlns:ic="http://schemas.xmlsoap.org/ws/2005/05/identity">
                    <ic:ClaimType Uri="http://wso2.org/claims/emailaddress"/>
                </t:Claims>
            </sp:RequestSecurityTokenTemplate>
        </wsp:Policy>
        <sp:RequireInternalReference/>
    </wsp:Policy>
</sp:IssuedToken>
</wsp:Policy>
</sp:SupportingTokens>
<sp:Wss11 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:MustSupportRefKeyIdentifier/>
        <sp:MustSupportRefIssuerSerial/>
    </wsp:Policy>
</sp:Wss11>

```

```

        <sp:MustSupportRefThumbprint/>
        <sp:MustSupportRefEncryptedKey/>
        <sp:RequireSignatureConfirmation/>
    </wsp:Policy>
</sp:Wss11>
<sp:Wss10 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:MustSupportRefKeyIdentifier/>
        <sp:MustSupportRefIssuerSerial/>
    </wsp:Policy>
</sp:Wss10>
<sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <sp:Body/>
</sp:SignedParts>
<sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <sp:Body/>
</sp:EncryptedParts>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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<wsp:Policy wsu:Id="SgnEncrAnonymous"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
<wsp:ExactlyOne>
<wsp:All>
<sp:SymmetricBinding>
<wsp:Policy>
<sp:ProtectionToken>
<wsp:Policy>
<sp:X509Token sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">

```

```

    <wsp:Policy>
      <sp:RequireThumbprintReference/>
      <sp:WssX509V3Token10/>
    </wsp:Policy>
  </sp:X509Token>
</wsp:Policy>
</sp:ProtectionToken>
<sp:AlgorithmSuite>
  <wsp:Policy>
    <sp:Basic256/>
  </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
  <wsp:Policy>
    <sp:Lax/>
  </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:SymmetricBinding>
<sp:SignedParts>
  <sp:Body/>
</sp:SignedParts>
  <sp:EncryptedParts>
    <sp:Body/>
  </sp:EncryptedParts>
<sp:Wss11>
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
    <sp:RequireSignatureConfirmation/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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-->

```
<wsp:Policy wsu:Id="SecConSgnEncrUsername"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
  xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:SymmetricBinding>
        <wsp:Policy>
          <sp:ProtectionToken>
            <wsp:Policy>
              <sp:SecureConversationToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
                <wsp:Policy>
                  <sp:BootstrapPolicy>
                    <wsp:Policy>
                      <sp:SymmetricBinding>
                        <wsp:Policy>
                          <sp:ProtectionToken>
                            <wsp:Policy>
                              <sp:X509Token sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                                <wsp:Policy>
                                  <sp:RequireThumbprintReference/>
                                  <sp:WssX509V3Token10/>
                                </wsp:Policy>
                              </sp:X509Token>
                            </wsp:Policy>
                          </sp:ProtectionToken>
                        <sp:AlgorithmSuite>
                          <wsp:Policy>
                            <sp:Basic256/>
                          </wsp:Policy>
                        </sp:AlgorithmSuite>
                      <sp:Layout>
```

```

    <wsp:Policy>
      <sp:Lax/>
    </wsp:Policy>
  </sp:Layout>
  <sp:IncludeTimestamp/>
  <sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:SymmetricBinding>
<sp:SignedParts>
  <sp:Body/>
</sp:SignedParts>
<sp:EncryptedParts>
  <sp:Body/>
</sp:EncryptedParts>
<sp:SignedSupportingTokens>
  <wsp:Policy>
    <sp:UsernameToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
      <wsp:Policy>
        <sp:WssUsernameToken10/>
      </wsp:Policy>
    </sp:UsernameToken>
  </wsp:Policy>
</sp:SignedSupportingTokens>
<sp:Wss11>
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
    <sp:RequireSignatureConfirmation/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:Policy>
</sp:BootstrapPolicy>
</wsp:Policy>
</sp:SecureConversationToken>
</wsp:Policy>
</sp:ProtectionToken>
<sp:AlgorithmSuite>
  <wsp:Policy>

```

```

    <sp:Basic256/>
  </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
  <wsp:Policy>
    <sp:Lax/>
  </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:SymmetricBinding>
<sp:SignedParts>
  <sp:Body/>
</sp:SignedParts>
<sp:EncryptedParts>
  <sp:Body/>
</sp:EncryptedParts>
<sp:Wss11>
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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-->

```
<wsp:Policy wsu:Id="SecConSignOnly"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
  xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:ExactlyOne>
    <wsp>All>
      <sp:SymmetricBinding>
        <wsp:Policy>
          <sp:ProtectionToken>
            <wsp:Policy>
              <sp:SecureConversationToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
                <wsp:Policy>
                  <sp:BootstrapPolicy>
                    <wsp:Policy>
                      <sp:AsymmetricBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
                        <wsp:Policy>
                          <sp:InitiatorToken>
                            <wsp:Policy>
                              <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                                <wsp:Policy>
                                  <sp:RequireThumbprintReference/>
                                  <sp:WssX509V3Token10/>
                                </wsp:Policy>
                              </sp:X509Token>
                            </wsp:Policy>
                          </sp:InitiatorToken>
                        <sp:RecipientToken>
                          <wsp:Policy>
                            <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                              <wsp:Policy>
                                <sp:RequireThumbprintReference/>
                                <sp:WssX509V3Token10/>
                              </wsp:Policy>
                            </sp:X509Token>
                          </wsp:Policy>
                        </sp:RecipientToken>
                      <sp:AlgorithmSuite>
                        <wsp:Policy>
                          <sp:Basic256/>
                        </wsp:Policy>
                      </sp:AlgorithmSuite>
                    </wsp:Policy>
                  </sp:BootstrapPolicy>
                </wsp:Policy>
              </sp:SecureConversationToken>
            </wsp:Policy>
          </sp:ProtectionToken>
        </wsp:Policy>
      </sp:SymmetricBinding>
    </wsp>All>
  </wsp:ExactlyOne>
</wsp:Policy>
```



```

        </sp:AlgorithmSuite>
        <sp:Layout>
            <wsp:Policy>
                <sp:Strict/>
            </wsp:Policy>
        </sp:Layout>
        <sp:IncludeTimestamp/>
        <sp:OnlySignEntireHeadersAndBody/>
    </wsp:Policy>
</sp:AsymmetricBinding>
<sp:Wss10 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:MustSupportRefKeyIdentifier/>
        <sp:MustSupportRefIssuerSerial/>
    </wsp:Policy>
</sp:Wss10>
<sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <sp:Body/>
</sp:SignedParts>
<sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <sp:Body/>
</sp:EncryptedParts>
</wsp:Policy>
</sp:BootstrapPolicy>
</wsp:Policy>
</sp:SecureConversationToken>
</wsp:Policy>
</sp:ProtectionToken>
<sp:AlgorithmSuite>
    <wsp:Policy>
        <sp:Basic256/>
    </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
    <wsp:Policy>
        <sp:Lax/>
    </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:SymmetricBinding>
<sp:SignedParts>
    <sp:Body/>
</sp:SignedParts>
<sp:Wss11>
    <wsp:Policy>
        <sp:MustSupportRefKeyIdentifier/>
    </wsp:Policy>

```

```

    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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-->

<wsp:Policy wsu:Id="SgnEncrAnonymousSAML20"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
  xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:SymmetricBinding>
        <wsp:Policy>
          <sp:ProtectionToken>
            <wsp:Policy>
              <sp:X509Token sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                <wsp:Policy>
                  <sp:RequireThumbprintReference/>
                  <sp:WssX509V3Token10/>
                </wsp:Policy>
              </sp:X509Token>
            </wsp:Policy>
          </sp:ProtectionToken>
        </wsp:Policy>
      </sp:SymmetricBinding>
    </wsp:All>
  </wsp:ExactlyOne>

```

```

</wsp:Policy>
</sp:ProtectionToken>
<sp:AlgorithmSuite>
  <wsp:Policy>
    <sp:Basic256/>
  </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
  <wsp:Policy>
    <sp:Lax/>
  </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:SymmetricBinding>
<sp:SupportingTokens xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:Policy>
    <sp:IssuedToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
      <sp:Issuer>
        <Address
xmlns="http://www.w3.org/2005/08/addressing">https://localhost:9443/services/wso2carbon-sts</Address>
        </sp:Issuer>
        <sp:RequestSecurityTokenTemplate>
          <t:TokenType
xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">urn:oasis:names:tc:SAML:2.0:assertion</t:TokenType>
          <t:KeyType
xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">http://schemas.xmlsoap.org/ws/2005/02/trust/SymmetricKey</t:KeyType>
          <t:KeySize xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">256</t:KeySize>
          <t:Claims Dialect="http://wso2.org/claims"
            xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust"
            xmlns:ic="http://schemas.xmlsoap.org/ws/2005/05/identity">
            <ic:ClaimType Uri="http://wso2.org/claims/emailaddress"/>
          </t:Claims>
        </sp:RequestSecurityTokenTemplate>
      <wsp:Policy>
        <sp:RequireInternalReference/>
      </wsp:Policy>
    </sp:IssuedToken>
  </wsp:Policy>
</sp:SupportingTokens>
<sp:SignedParts>
  <sp:Body/>
</sp:SignedParts>
  <sp:EncryptedParts>
    <sp:Body/>

```

```

    </sp:EncryptedParts>
  <sp:Wss11>
    <wsp:Policy>
      <sp:MustSupportRefKeyIdentifier/>
      <sp:MustSupportRefIssuerSerial/>
      <sp:MustSupportRefThumbprint/>
      <sp:MustSupportRefEncryptedKey/>
      <sp:RequireSignatureConfirmation/>
    </wsp:Policy>
  </sp:Wss11>
  <sp:Trust10>
    <wsp:Policy>
      <sp:MustSupportIssuedTokens/>
      <sp:RequireClientEntropy/>
      <sp:RequireServerEntropy/>
    </wsp:Policy>
  </sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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-->

<wsp:Policy wsu:Id="IssuedToken_SigEncr" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:SymmetricBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:ProtectionToken>
            <wsp:Policy>
              <sp:IssuedToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
                <Issuer xmlns="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
                  <Address xmlns="http://www.w3.org/2005/08/addressing">http://foo.bar/we/don/t/process/this/yes</Address>

```

```

    </Issuer>
    <sp:RequestSecurityTokenTemplate>
      <t:TokenType
xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">urn:oasis:names:tc:SAML:1.0:assertion</t:TokenType>
      <t:KeyType
xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">http://schemas.xmlsoap.org/ws/2005/02/trust/SymmetricKey</t:KeyType>
      <t:KeySize xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">256</t:KeySize>
    </sp:RequestSecurityTokenTemplate>
    <wsp:Policy>
      <sp:RequireInternalReference/>
    </wsp:Policy>
  </sp:IssuedToken>
</wsp:Policy>
</sp:ProtectionToken>
<sp:AlgorithmSuite>
  <wsp:Policy>
    <sp:Basic256/>
  </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
  <wsp:Policy>
    <sp:Strict/>
  </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:EncryptSignature/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:SymmetricBinding>
<sp:Wss11 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
<sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <sp:Body/>
  <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing"/>

```

```

<sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing"/>
<sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing"/>
<sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing"/>
<sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing"/>
<sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing"/>
<sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing"/>
</sp:SignedParts>
<sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
<sp:Body/>
</sp:EncryptedParts>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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-->

<wsp:Policy wsu:Id="EncrOnlyUsername"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
<wsp:ExactlyOne>
<wsp:All>
<sp:SymmetricBinding>
<wsp:Policy>
<sp:ProtectionToken>
<wsp:Policy>
<sp:X509Token sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
<wsp:Policy>
<sp:RequireThumbprintReference/>
<sp:WssX509V3Token10/>
</wsp:Policy>
</sp:X509Token>
</wsp:Policy>
</sp:ProtectionToken>

```

```

    <sp:AlgorithmSuite>
      <wsp:Policy>
        <sp:Basic256/>
      </wsp:Policy>
    </sp:AlgorithmSuite>
    <sp:Layout>
      <wsp:Policy>
        <sp:Lax/>
      </wsp:Policy>
    </sp:Layout>
    <sp:IncludeTimestamp/>
    <sp:OnlySignEntireHeadersAndBody/>
  </wsp:Policy>
</sp:SymmetricBinding>
<sp:EncryptedParts>
  <sp:Body/>
</sp:EncryptedParts>
<sp:SignedSupportingTokens>
  <wsp:Policy>
    <sp:UsernameToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
      <wsp:Policy>
        <sp:WssUsernameToken10/>
      </wsp:Policy>
    </sp:UsernameToken>
  </wsp:Policy>
</sp:SignedSupportingTokens>
<sp:Wss11>
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
    <sp:RequireSignatureConfirmation/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
<!--
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```
<wsp:Policy wsu:Id="SecConSignOnlyAnonymous"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
  xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:SymmetricBinding>
        <wsp:Policy>
          <sp:ProtectionToken>
            <wsp:Policy>
              <sp:SecureConversationToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
                <wsp:Policy>
                  <sp:BootstrapPolicy>
                    <wsp:Policy>
                      <sp:SymmetricBinding>
                        <wsp:Policy>
                          <sp:ProtectionToken>
                            <wsp:Policy>
                              <sp:X509Token sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                                <wsp:Policy>
                                  <sp:RequireThumbprintReference/>
                                  <sp:WssX509V3Token10/>
                                </wsp:Policy>
                              </sp:X509Token>
                            </wsp:Policy>
                          </sp:ProtectionToken>
                        <sp:AlgorithmSuite>
                          <wsp:Policy>
                            <sp:Basic256/>
                          </wsp:Policy>
                        </sp:AlgorithmSuite>
                      <sp:Layout>
```



```

    <wsp:Policy>
      <sp:Lax/>
    </wsp:Policy>
  </sp:Layout>
  <sp:IncludeTimestamp/>
  <sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:SymmetricBinding>
<sp:SignedParts>
  <sp:Body/>
</sp:SignedParts>
  <sp:EncryptedParts>
    <sp:Body/>
  </sp:EncryptedParts>
<sp:Wss11>
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
    <sp:RequireSignatureConfirmation/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:Policy>
</sp:BootstrapPolicy>
</wsp:Policy>
</sp:SecureConversationToken>
</wsp:Policy>
</sp:ProtectionToken>
<sp:AlgorithmSuite>
  <wsp:Policy>
    <sp:Basic256/>
  </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
  <wsp:Policy>
    <sp:Lax/>
  </wsp:Policy>
</sp:Layout>
  <sp:IncludeTimestamp/>
  <sp:OnlySignEntireHeadersAndBody/>

```

```

</wsp:Policy>
</sp:SymmetricBinding>
<sp:SignedParts>
  <sp:Body/>
</sp:SignedParts>
<sp:Wss11>
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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<wsp:Policy wsu:Id="SecConEncrUsername"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
  xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:SymmetricBinding>
        <wsp:Policy>

```

```

<sp:ProtectionToken>
  <wsp:Policy>
    <sp:SecureConversationToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
  <wsp:Policy>
    <sp:BootstrapPolicy>
      <wsp:Policy>
        <sp:SymmetricBinding>
          <wsp:Policy>
            <sp:ProtectionToken>
              <wsp:Policy>
                <sp:X509Token sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
                  <wsp:Policy>
                    <sp:RequireThumbprintReference/>
                    <sp:WssX509V3Token10/>
                  </wsp:Policy>
                </sp:X509Token>
              </wsp:Policy>
            </sp:ProtectionToken>
            <sp:AlgorithmSuite>
              <wsp:Policy>
                <sp:Basic256/>
              </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
              <wsp:Policy>
                <sp:Lax/>
              </wsp:Policy>
            </sp:Layout>
            <sp:IncludeTimestamp/>
            <sp:OnlySignEntireHeadersAndBody/>
          </wsp:Policy>
        </sp:SymmetricBinding>
        <sp:SignedParts>
          <sp:Body/>
        </sp:SignedParts>
        <sp:EncryptedParts>
          <sp:Body/>
        </sp:EncryptedParts>
        <sp:SignedSupportingTokens>
          <wsp:Policy>
            <sp:UsernameToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
          <wsp:Policy>
            <sp:WssUsernameToken10/>
          </wsp:Policy>
        </sp:UsernameToken>
      </wsp:Policy>
    </sp:BootstrapPolicy>
  </wsp:Policy>
</sp:ProtectionToken>

```

```

</sp:SignedSupportingTokens>
<sp:Wss11>
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
    <sp:RequireSignatureConfirmation/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:Policy>
</sp:BootstrapPolicy>
</wsp:Policy>
</sp:SecureConversationToken>
</wsp:Policy>
</sp:ProtectionToken>
<sp:AlgorithmSuite>
  <wsp:Policy>
    <sp:Basic256/>
  </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
  <wsp:Policy>
    <sp:Lax/>
  </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:SymmetricBinding>
<sp:EncryptedParts>
  <sp:Body/>
</sp:EncryptedParts>
<sp:Wss11>
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
  </wsp:Policy>
</sp:Wss11>

```

```

<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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<wsp:Policy wsu:Id="UTOverTransport"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:TransportToken>
            <wsp:Policy>
              <sp:HttpsToken RequireClientCertificate="false"/>
            </wsp:Policy>
          </sp:TransportToken>
          <sp:AlgorithmSuite>
            <wsp:Policy>
              <sp:Basic256/>
            </wsp:Policy>
          </sp:AlgorithmSuite>
          <sp:Layout>
            <wsp:Policy>
              <sp:Lax/>
            </wsp:Policy>
          </sp:Layout>
        </wsp:Policy>
      </sp:TransportBinding>
    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>

```

```

        <sp:IncludeTimestamp/>
    </wsp:Policy>
</sp:TransportBinding>
<sp:SignedSupportingTokens
    xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:UsernameToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient"/>
    </wsp:Policy>
    </sp:SignedSupportingTokens>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
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<wsp:Policy wsu:Id="SigEncrSAML20Supporting33"
    xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
    xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy">
    <wsp:ExactlyOne>
        <wsp:All>
            <sp:AsymmetricBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
                <wsp:Policy>
                    <sp:InitiatorToken>
                        <wsp:Policy>
                            <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
                                <wsp:Policy>
                                    <sp:RequireThumbprintReference/>
                                </wsp:Policy>
                            </sp:X509Token>
                        </wsp:Policy>
                    </sp:InitiatorToken>
                    <sp:RecipientToken>
                        <wsp:Policy>

```

```

        <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
    <wsp:Policy>
        <sp:RequireThumbprintReference/>
    </wsp:Policy>
    </sp:X509Token>
</wsp:Policy>
</sp:RecipientToken>
<sp:AlgorithmSuite>
    <wsp:Policy>
        <sp:Basic256/>
    </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
    <wsp:Policy>
        <sp:Strict/>
    </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:AsymmetricBinding>
<sp:SupportingTokens xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:IssuedToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
            <sp:Issuer>
                <Address
xmlns="http://www.w3.org/2005/08/addressing">https://localhost:9443/services/wso2carbon-sts</Address>
            </sp:Issuer>
            <sp:RequestSecurityTokenTemplate>
                <t:TokenType
xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">urn:oasis:names:tc:SAML:2.0:assertion</t:TokenType>
                <t:KeyType
xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">http://schemas.xmlsoap.org/ws/2005/02/trust/SymmetricKe
y</t:KeyType>
                    <t:KeySize xmlns:t="http://schemas.xmlsoap.org/ws/2005/02/trust">256</t:KeySize>
                </sp:RequestSecurityTokenTemplate>
            </wsp:Policy>
            <sp:RequireInternalReference/>
        </wsp:Policy>
    </sp:IssuedToken>
</wsp:Policy>
</sp:SupportingTokens>
<sp:Wss11 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
    <wsp:Policy>
        <sp:MustSupportRefKeyIdentifier/>
        <sp:MustSupportRefIssuerSerial/>
    </wsp:Policy>
</sp:Wss11>

```

```

    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
    <sp:RequireSignatureConfirmation/>
  </wsp:Policy>
</sp:Wss11>
<sp:Wss10 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
  </wsp:Policy>
</sp:Wss10>
<sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <sp:Body/>
</sp:SignedParts>
<sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <sp:Body/>
</sp:EncryptedParts>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
<!--
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-->

<wsp:Policy wsu:Id="SecConEncrOnly"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
  xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:ExactlyOne>
  <wsp:All>
  <sp:SymmetricBinding>
  <wsp:Policy>
  <sp:ProtectionToken>
  <wsp:Policy>
  <sp:SecureConversationToken

```



```

sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient">
  <wsp:Policy>
    <sp:BootstrapPolicy>
      <wsp:Policy>
        <sp:AsymmetricBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:InitiatorToken>
              <wsp:Policy>
                <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
  <wsp:Policy>
    <sp:RequireThumbprintReference/>
    <sp:WssX509V3Token10/>
  </wsp:Policy>
</sp:X509Token>
</wsp:Policy>
</sp:InitiatorToken>
<sp:RecipientToken>
  <wsp:Policy>
    <sp:X509Token
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Never">
  <wsp:Policy>
    <sp:RequireThumbprintReference/>
    <sp:WssX509V3Token10/>
  </wsp:Policy>
</sp:X509Token>
</wsp:Policy>
</sp:RecipientToken>
<sp:AlgorithmSuite>
  <wsp:Policy>
    <sp:Basic256/>
  </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
  <wsp:Policy>
    <sp:Strict/>
  </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
  </wsp:Policy>
</sp:AsymmetricBinding>
<sp:Wss10 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
  </wsp:Policy>
</sp:Wss10>

```

```

    <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
      <sp:Body/>
    </sp:SignedParts>
    <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
      <sp:Body/>
    </sp:EncryptedParts>
  </wsp:Policy>
</sp:BootstrapPolicy>
</wsp:Policy>
</sp:SecureConversationToken>
</wsp:Policy>
</sp:ProtectionToken>
<sp:AlgorithmSuite>
  <wsp:Policy>
    <sp:Basic256/>
  </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
  <wsp:Policy>
    <sp:Lax/>
  </wsp:Policy>
</sp:Layout>
<sp:IncludeTimestamp/>
<sp:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</sp:SymmetricBinding>
<sp:EncryptedParts>
  <sp:Body/>
</sp:EncryptedParts>
<sp:Wss11>
  <wsp:Policy>
    <sp:MustSupportRefKeyIdentifier/>
    <sp:MustSupportRefIssuerSerial/>
    <sp:MustSupportRefThumbprint/>
    <sp:MustSupportRefEncryptedKey/>
  </wsp:Policy>
</sp:Wss11>
<sp:Trust10>
  <wsp:Policy>
    <sp:MustSupportIssuedTokens/>
    <sp:RequireClientEntropy/>
    <sp:RequireServerEntropy/>
  </wsp:Policy>
</sp:Trust10>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>

```

```

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 */
package org.wso2.carbon.security.sts.service;

```

```

import org.apache.axiom.om.OMElement;
import org.apache.axis2.AxisFault;
import org.apache.axis2.description.AxisService;
import org.apache.axis2.description.Parameter;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.rahas.impl.SAMLTokenIssuerConfig;
import org.wso2.carbon.base.MultitenantConstants;
import org.wso2.carbon.context.CarbonContext;
import org.wso2.carbon.core.AbstractAdmin;
import org.wso2.carbon.core.RegistryResources;
import org.wso2.carbon.core.util.KeyStoreUtil;
import org.wso2.carbon.registry.core.Registry;
import org.wso2.carbon.registry.core.Resource;
import org.wso2.carbon.security.SecurityConfigException;
import org.wso2.carbon.security.config.SecurityServiceAdmin;
import org.wso2.carbon.security.keystore.KeyStoreAdmin;
import org.wso2.carbon.security.keystore.service.KeyStoreData;
import org.wso2.carbon.security.sts.service.util.TrustedServiceData;
import org.wso2.carbon.utils.ServerConstants;

```

```

import java.util.ArrayList;
import java.util.Iterator;
import java.util.Map;
import java.util.Set;

```

```

public class STSAdminServiceImpl extends AbstractAdmin implements STSAdminServiceInterface {

```

```

    private static Log log = LogFactory.getLog(STSAdminServiceImpl.class);

```

```

public void addTrustedService(String serviceAddress, String certAlias)
    throws SecurityConfigException {
    try {
        AxisService stsService = getAxisConfig().getService(ServerConstants.STS_NAME);
        Parameter origParam = stsService.getParameter(SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG
            .getLocalPart());
        if (origParam != null) {
            OMElement samlConfigElem = origParam.getParameterElement().getFirstChildWithName(
                SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG);
            SAMLTokenIssuerConfig samlConfig = new SAMLTokenIssuerConfig(samlConfigElem);
            samlConfig.addTrustedServiceEndpointAddress(serviceAddress, certAlias);
            setSTSPParameter(samlConfig);
            persistTrustedService(ServerConstants.STS_NAME,
                ServerConstants.STS_NAME,
                serviceAddress,
                certAlias);
        } else {
            throw new AxisFault("missing parameter : "
                + SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG.getLocalPart());
        }
    } catch (Exception e) {
        log.error("Error while adding a trusted service", e);
        throw new SecurityConfigException(e.getMessage(), e);
    }
}

```

```

public void removeTrustedService(String serviceAddress) throws SecurityConfigException {
    try {
        AxisService stsService = getAxisConfig().getService(ServerConstants.STS_NAME);
        Parameter origParam = stsService.getParameter(SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG
            .getLocalPart());
        if (origParam != null) {
            OMElement samlConfigElem = origParam.getParameterElement().getFirstChildWithName(
                SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG);
            SAMLTokenIssuerConfig samlConfig = new SAMLTokenIssuerConfig(samlConfigElem);
            samlConfig.getTrustedServices().remove(serviceAddress);
            setSTSPParameter(samlConfig);
            removeTrustedService(ServerConstants.STS_NAME, ServerConstants.STS_NAME,
                serviceAddress);
        } else {
            throw new AxisFault("missing parameter : "
                + SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG.getLocalPart());
        }
    } catch (Exception e) {
        log.error("Error while removing a trusted service", e);
    }
}

```

```

        throw new SecurityConfigException(e.getMessage(), e);
    }
}

public void setProofKeyType(String keyType) throws SecurityConfigException {
    try {
        AxisService service = getAxisConfig().getService(ServerConstants.STS_NAME);
        Parameter origParam = service.getParameter(SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG
            .getLocalPart());
        if (origParam != null) {
            OMElement samlConfigElem = origParam.getParameterElement().getFirstChildWithName(
                SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG);
            SAMLTokenIssuerConfig samlConfig = new SAMLTokenIssuerConfig(samlConfigElem);
            samlConfig.setProofKeyType(keyType);
            setSTSPParameter(samlConfig);
        } else {
            throw new AxisFault("missing parameter : "
                + SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG.getLocalPart());
        }
    } catch (Exception e) {
        log.error("Error setting proof key type", e);
        throw new SecurityConfigException(e.getMessage(), e);
    }
}

public TrustedServiceData[] getTrustedServices() throws SecurityConfigException {
    try {
        AxisService service = getAxisConfig().getService(ServerConstants.STS_NAME);
        Parameter origParam = service.getParameter(SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG
            .getLocalPart());
        if (origParam != null) {
            OMElement samlConfigElem = origParam.getParameterElement().getFirstChildWithName(
                SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG);
            SAMLTokenIssuerConfig samlConfig = new SAMLTokenIssuerConfig(samlConfigElem);
            Map trustedServicesMap = samlConfig.getTrustedServices();
            Set addresses = trustedServicesMap.keySet();

            ArrayList serviceBag = new ArrayList();
            for (Iterator iterator = addresses.iterator(); iterator.hasNext();) {
                String address = (String) iterator.next();
                String alias = (String) trustedServicesMap.get(address);
                TrustedServiceData data = new TrustedServiceData(address, alias);
                serviceBag.add(data);
            }
            return (TrustedServiceData[]) serviceBag.toArray(new TrustedServiceData[serviceBag
                .size()]);
        } else {

```

```

        throw new SecurityConfigException("missing parameter : "
            + SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG.getLocalPart());
    }
} catch (Exception e) {
    log.error("Error while retrieving trusted services", e);
    throw new SecurityConfigException(e.getMessage(), e);
}
}

public String getProofKeyType() throws SecurityConfigException {
    try {
        AxisService service = getAxisConfig().getService(ServerConstants.STS_NAME);
        Parameter origParam = service.getParameter(SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG
            .getLocalPart());
        if (origParam != null) {
            OMElement samlConfigElem = origParam.getParameterElement().getFirstChildWithName(
                SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG);
            SAMLTokenIssuerConfig samlConfig = new SAMLTokenIssuerConfig(samlConfigElem);
            return samlConfig.getProofKeyType();
        } else {
            throw new SecurityConfigException("missing parameter : "
                + SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG.getLocalPart());
        }
    } catch (Exception e) {
        log.error("Error while retrieving proof key type", e);
        throw new SecurityConfigException(e.getMessage(), e);
    }
}

public String[] getCertAliasOfPrimaryKeyStore() throws SecurityConfigException {

    KeyStoreData[] keyStores = getKeyStores();
    int tenantId = CarbonContext.getThreadLocalCarbonContext().getTenantId();
    KeyStoreData primaryKeystore = null;
    for (KeyStoreData keyStore : keyStores) {
        if (keyStore != null) {
            if (tenantId == MultitenantConstants.SUPER_TENANT_ID){
                if(KeyStoreUtil.isPrimaryStore(keyStore.getKeyStoreName())){
                    primaryKeystore = keyStore;
                    break;
                }
            } else {
                if (keyStore.getPrivateStore()){
                    primaryKeystore = keyStore;
                    break;
                }
            }
        }
    }
}

```

```

    }

    if (primaryKeystore != null) {
        return getStoreEntries(primaryKeystore.getKeyStoreName());
    }

    throw new SecurityConfigException("Primary Keystore cannot be found.");
}

private void setSTSPParameter(SAMLTokenIssuerConfig samlConfig) throws AxisFault {
    new SecurityServiceAdmin(getAxisConfig(), getConfigSystemRegistry()).
        setServiceParameterElement(ServerConstants.STS_NAME, samlConfig.getParameter());
}

private KeyStoreData[] getKeyStores() throws SecurityConfigException {
    KeyStoreAdmin admin = new KeyStoreAdmin(CarbonContext.getThreadLocalCarbonContext().getTenantId(),
        getGovernanceSystemRegistry());
    boolean isSuperTenant = CarbonContext.getThreadLocalCarbonContext().getTenantId() ==
        MultitenantConstants.SUPER_TENANT_ID;
    return admin.getKeyStores(isSuperTenant);
}

private String[] getStoreEntries(String keyStoreName) throws SecurityConfigException {
    KeyStoreAdmin admin = new KeyStoreAdmin(CarbonContext.getThreadLocalCarbonContext().getTenantId(),
        getGovernanceSystemRegistry());
    return admin.getStoreEntries(keyStoreName);
}

private void persistTrustedService(String groupName, String serviceName, String trustedService,
    String certAlias) throws SecurityConfigException {
    Registry registry;
    String resourcePath;
    Resource resource;
    try {
        resourcePath = RegistryResources.SERVICE_GROUPS + groupName
            + RegistryResources.SERVICES + serviceName + "/trustedServices";
        registry = getConfigSystemRegistry(); //TODO: Multitenancy
        if (registry != null) {
            if (registry.resourceExists(resourcePath)) {
                resource = registry.get(resourcePath);
            } else {
                resource = registry.newResource();
            }
            if (resource.getProperty(trustedService) != null) {
                resource.removeProperty(trustedService);
            }
            resource.addProperty(trustedService, certAlias);
            registry.put(resourcePath, resource);
        }
    }
}

```

```

    }
} catch (Exception e) {
    log.error("Error occurred while adding trusted service for STS", e);
    throw new SecurityConfigException("Error occurred while adding trusted service for STS",
        e);
}
}

private void removeTrustedService(String groupName, String serviceName, String trustedService)
    throws SecurityConfigException {
    Registry registry;
    String resourcePath;
    Resource resource;
    try {
        resourcePath = RegistryResources.SERVICE_GROUPS + groupName
            + RegistryResources.SERVICES + serviceName + "/trustedServices";
        registry = getConfigSystemRegistry(); //TODO: Multitenancy
        if (registry != null) {
            if (registry.resourceExists(resourcePath)) {
                resource = registry.get(resourcePath);
                if (resource.getProperty(trustedService) != null) {
                    resource.removeProperty(trustedService);
                }
                registry.put(resourcePath, resource);
            }
        }
    } catch (Exception e) {
        log.error("Error occurred while removing trusted service for STS", e);
        throw new SecurityConfigException("Error occurred while adding trusted service for STS",
            e);
    }
}

}
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```



```

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*/
package org.wso2.carbon.security.keystore.service;

import org.wso2.carbon.base.MultitenantConstants;
import org.wso2.carbon.context.CarbonContext;
import org.wso2.carbon.core.AbstractAdmin;
import org.wso2.carbon.security.SecurityConfigException;
import org.wso2.carbon.security.keystore.KeyStoreAdmin;

public class KeyStoreAdminServiceImpl extends AbstractAdmin implements KeyStoreAdminInterface {

    public KeyStoreData[] getKeyStores() throws SecurityConfigException {
        KeyStoreAdmin admin = new KeyStoreAdmin(CarbonContext.getThreadLocalCarbonContext().getTenantId(),
            getGovernanceSystemRegistry());
        boolean isSuperTenant = CarbonContext.getThreadLocalCarbonContext().getTenantId() ==
            MultitenantConstants.SUPER_TENANT_ID;
        return admin.getKeyStores(isSuperTenant);
    }

    public void addKeyStore(String fileData, String filename, String password, String provider,
        String type, String pvtkeyPass) throws SecurityConfigException {
        KeyStoreAdmin admin = new KeyStoreAdmin(CarbonContext.getThreadLocalCarbonContext().getTenantId(),
            getGovernanceSystemRegistry());
        admin.addKeyStore(fileData, filename, password, provider, type, pvtkeyPass);
    }

    public void addTrustStore(String fileData, String filename, String password, String provider,
        String type) throws SecurityConfigException {
        KeyStoreAdmin admin = new KeyStoreAdmin(CarbonContext.getThreadLocalCarbonContext().getTenantId(),
            getGovernanceSystemRegistry());
        admin.addTrustStore(fileData, filename, password, provider, type);
    }

    public void deleteStore(String keyStoreName) throws SecurityConfigException {
        KeyStoreAdmin admin = new KeyStoreAdmin(CarbonContext.getThreadLocalCarbonContext().getTenantId(),
            getGovernanceSystemRegistry());
        admin.deleteStore(keyStoreName);
    }

    public void importCertToStore(String fileName, String fileData, String keyStoreName)
        throws SecurityConfigException {
        KeyStoreAdmin admin = new KeyStoreAdmin(CarbonContext.getThreadLocalCarbonContext().getTenantId(),
            getGovernanceSystemRegistry());
        admin.importCertToStore(fileName, fileData, keyStoreName);
    }
}

```

```

}

public String[] getStoreEntries(String keyStoreName) throws SecurityConfigException {
    KeyStoreAdmin admin = new KeyStoreAdmin(CarbonContext.getThreadLocalCarbonContext().getTenantId(),
        getGovernanceSystemRegistry());
    return admin.getStoreEntries(keyStoreName);
}

public KeyStoreData getKeystoreInfo(String keyStoreName) throws SecurityConfigException {
    KeyStoreAdmin admin = new KeyStoreAdmin(CarbonContext.getThreadLocalCarbonContext().getTenantId(),
        getGovernanceSystemRegistry());
    return admin.getKeystoreInfo(keyStoreName);
}

public void removeCertFromStore(String alias, String keyStoreName) throws SecurityConfigException{
    KeyStoreAdmin admin = new KeyStoreAdmin(CarbonContext.getThreadLocalCarbonContext().getTenantId(),
        getGovernanceSystemRegistry());
    admin.removeCertFromStore(alias, keyStoreName);
}

public PaginatedKeyStoreData getPaginatedKeystoreInfo(String keyStoreName, int pageNumber) throws
SecurityConfigException {
    KeyStoreAdmin admin = new KeyStoreAdmin(CarbonContext.getThreadLocalCarbonContext().getTenantId(),
        getGovernanceSystemRegistry());
    return admin.getPaginatedKeystoreInfo(keyStoreName, pageNumber);
}
}
}

```

1.836 org.wso2.carbon.security.mgt.stub

4.2.0

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1.837 org.wso2.carbon.security.mgt.ui 4.2.0

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1.838 org.wso2.carbon.sequences 4.2.0

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*/

```
package org.wso2.carbon.sequences;
```

```
import org.apache.axiom.om.OMElement;
```

```
import org.apache.axis2.context.ConfigurationContext;
```

```
import org.apache.synapse.deployers.SequenceDeployer;
```

```
import java.util.Properties;
```

```
/**
```

```
* Takes care of deploying sequences on the carbon environment.</p>
```

```
*
```

```
* <p>This deployer actually intercepts the deployment of the <code>sequences</code>
```

```

* to the Synapse environment from the {@link org.apache.synapse.deployers.SequenceDeployer}
* and handles the persistence to the registry on the carbon environment.
*/
public class SequenceDeploymentInterceptor extends SequenceDeployer {

    @Override
    public void init(ConfigurationContext configCtx) {
        super.init(configCtx);
    }

    @Override
    public String deploySynapseArtifact(OMEElement artifactConfig, String fileName,
        Properties properties) {
        String seqName = super.deploySynapseArtifact(artifactConfig, fileName, properties);
        return seqName;
    }

    @Override
    public String updateSynapseArtifact(OMEElement artifactConfig, String fileName,
        String existingArtifactName, Properties properties) {
        String seqName = super.updateSynapseArtifact(
            artifactConfig, fileName, existingArtifactName, properties);
        return seqName;
    }

    @Override
    public void undeploySynapseArtifact(String artifactName) {
        super.undeploySynapseArtifact(artifactName);
    }

    @Override
    public void restoreSynapseArtifact(String artifactName) {
        super.restoreSynapseArtifact(artifactName);
    }
}

```

1.839 org.wso2.carbon.sequences.common

4.2.0

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1.840 org.wso2.carbon.sequences.stub 4.2.1

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1.842 org.wso2.carbon.server.admin 4.2.0

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1.845 org.wso2.carbon.server.admin.ui 4.2.0

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1.846 org.wso2.carbon.service.mgt 4.2.1

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```
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 */
package org.wso2.carbon.service.mgt;

import org.apache.axiom.om.impl.builder.StAXBuilder;
import org.apache.axiom.om.impl.builder.StAXOMBuilder;
import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.OMNamespace;
import org.apache.neethi.Policy;
import org.apache.neethi.PolicyComponent;
import org.apache.neethi.Assertion;

import javax.xml.namespace.QName;
import java.io.ByteArrayInputStream;
import java.util.List;

public class TestPolicyUtil extends BaseTestCase {

    private static final String TEST_POLICY = "<wsp:Policy wsu:Id=\"binding_level_policy\" " +
        " xmlns:wsp=\"http://schemas.xmlsoap.org/ws/2004/09/policy\" " +
        " xmlns:wsu=\"http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd\"
>"+<wsp:ExactlyOne> " +
        "     <wsp:All>" +
        "         <wsu:Basic256Rsa15 /> " +
        "     </wsp:All>" +
        " </wsp:ExactlyOne>" +
```

```

    " </wsp:Policy>";
OMEElement root;
OMEElement wrapEle;
Policy testPol;
Policy testPol1;
QName attrName;
QName attrName1;

public void setUp() throws Exception{
    super.setUp();
}

public void testSteps() throws Exception{

    MethodStuff();

}

public void MethodStuff() throws Exception{

    OMEElement element;
    OMEElement elm;

    ByteArrayInputStream xmlStream = new ByteArrayInputStream(TEST_POLICY.getBytes());
    StAXBuilder builder = new StAXOMBuilder(xmlStream);
    root = builder.getDocumentElement();

    Policy pol1 = new Policy();
    List<PolicyComponent> pC = pol1.getAssertions();
    assertEquals(0,pC.size());

    pol1 = PolicyUtil.getPolicyFromOMEElement(root);
    pC = pol1.getAssertions();
    assertEquals(1,pC.size());

    element = PolicyUtil.getEmptyPolicyAsOMEElement();
    OMNamespace nmSpc = element.getNamespace();
    assertEquals("wsp",nmSpc.getPrefix());

    createNewPolicy();
    testPol.addPolicyComponents(pC);

    elm = PolicyUtil.getPolicyAsOMEElement(testPol);
    String attr = elm.getAttributeValue(attrName);
    assertEquals("attribute1",attr);
}

```

```

String ps1 = PolicyUtil.getPolicyAsString(testPol1);
System.out.println(ps1);

wrapEle = PolicyUtil.getWrapper("testingPolicy");
OMNamespace nmSpecs = element.getNamespace();
assertEquals("wsp",nmSpecs.getPrefix());

}

public void createNewPolicy() throws Exception{

    attrName = new QName("attr");
    attrName1 = new QName("attr1");

    testPol = new Policy();
    testPol.setName("testPol");
    testPol.setId("pol");
    testPol.addAttribute(attrName,"attribute1");

    testPol1 = new Policy();
    testPol1.setName("testPol1");
    testPol1.setId("pol1");
    testPol1.addAttribute(attrName1,"attribute2");

}
}
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 */

package org.wso2.carbon.service.mgt.echo;

/**
 * Simple bean used in the echo service
 */
public class SimpleBean {

```

```

private String[] a_r;
private String[] b_r;
private int c;

public String[] getA_r() {
    return a_r;
}

public void setA_r(String[] a_r) {
    this.a_r = a_r;
}

public String[] getB_r() {
    return b_r;
}

public void setB_r(String[] b_r) {
    this.b_r = b_r;
}

public int getC() {
    return c;
}

public void setC(int c) {
    this.c = c;
}
}
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 */
package org.wso2.carbon.service.mgt;

import org.wso2.carbon.utils.CarbonUtils;

```

```

public class PolicyMetaData {

    private String wrapper;
    private String[] polycies;

    public String getWrapper() {
        return wrapper;
    }

    public void setWrapper(String wrapper) {
        this.wrapper = wrapper;
    }

    public String[] getPolycies() {
        return CarbonUtils.arrayCopyOf(polycies);
    }

    public void setPolycies(String[] polycies) {
        this.polycies = CarbonUtils.arrayCopyOf(polycies);
    }

}

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 */
package org.wso2.carbon.service.mgt;

import org.apache.axiom.om.OMAbstractFactory;
import org.apache.axiom.om.OMAttribute;
import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.OMFactory;
import org.apache.axiom.om.OMNamespace;
import org.apache.axiom.om.OMXMLBuilderFactory;

```

```

import org.apache.axiom.om.impl.builder.StAXOMBuilder;
import org.apache.neethi.Policy;
import org.apache.neethi.PolicyEngine;
import org.apache.neethi.PolicyReference;
import org.apache.neethi.PolicyRegistry;
import org.wso2.carbon.utils.xml.XMLPrettyPrinter;

import javax.xml.stream.XMLInputFactory;
import javax.xml.stream.XMLOutputFactory;
import javax.xml.stream.XMLStreamException;
import javax.xml.stream.XMLStreamReader;
import javax.xml.stream.XMLStreamWriter;
import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;

public final class PolicyUtil {

    private static final String EMPTY_POLICY =
        "<wsp:Policy xmlns:wsp=\"http://schemas.xmlsoap.org/ws/2004/09/policy\" />";

    private PolicyUtil() {}

    public static OMElement getPolicyAsOMEElement(Policy policy) {

        try {
            ByteArrayOutputStream baos = new ByteArrayOutputStream();
            XMLStreamWriter writer = XMLOutputFactory.newInstance().createXMLStreamWriter(baos);
            policy.serialize(writer);
            writer.flush();
            ByteArrayInputStream bais = new ByteArrayInputStream(baos.toByteArray());
            XMLStreamReader xmlStreamReader =
                XMLInputFactory.newInstance().createXMLStreamReader(bais);
            StAXOMBuilder staxOMBuilder =
                (StAXOMBuilder) OMXMLBuilderFactory.createStAXOMBuilder(
                    OMAbstractFactory.getOMFactory(), xmlStreamReader);
            return staxOMBuilder.getDocumentElement();

        } catch (Exception ex) {
            throw new RuntimeException("can't convert the policy to an OMElement", ex);
        }
    }

    public static String getPolicyAsString(Policy policy) {
        ByteArrayOutputStream outBuffer = new ByteArrayOutputStream();
        try {

```



```

XMLStreamWriter writer =
    XMLOutputFactory.newInstance().createXMLStreamWriter(outBuffer);
policy.serialize(writer);
writer.flush();
ByteArrayInputStream bais = new ByteArrayInputStream(outBuffer.toByteArray());
XMLPrettyPrinter xmlPrettyPrinter = new XMLPrettyPrinter(bais);
return xmlPrettyPrinter.xmlFormat();

} catch (XMLStreamException e) {
    throw new RuntimeException("Serialization of Policy object failed " + e);
}

}

public static Policy getPolicyFromOMElement(OMElement policyElement) {
    return PolicyEngine.getPolicy(policyElement);
}

public static OMElement getEmptyPolicyAsOMElement() {
    ByteArrayInputStream bais = new ByteArrayInputStream(EMPTY_POLICY.getBytes());
    Policy policy = PolicyEngine.getPolicy(bais);

    return getPolicyAsOMElement(policy);
}

public static OMElement getWrapper(String name) {
    OMFactory fac = OMAbstractFactory.getOMFactory();
    OMNamespace namespace = fac.createOMNamespace("", name);
    OMElement element = fac.createOMElement("Policy", namespace);
    OMAAttribute attribute = fac.createOMAAttribute("name", namespace, name);
    element.addAttribute(attribute);

    return element;
}

public static String[] processPolicyElements(Iterator policyIterator, PolicyRegistry registry) {
    List<String> policyList = new ArrayList<String>();
    while (policyIterator.hasNext()) {
        Object value = policyIterator.next();

        if (value instanceof Policy) {
            Policy policy = (Policy) value;
            policyList.add(PolicyUtil.getPolicyAsString(policy));
        } else if (value instanceof PolicyReference) {

            PolicyReference policyReference = (PolicyReference) value;
            Policy policy = registry.lookup(policyReference.getURI());

```

```

        if (policy == null) {
            throw new RuntimeException(policyReference.getURI() +
                " cannot be resolved");
        }
        policyList.add(PolicyUtil.getPolicyAsString(policy));
    }
}

return policyList.toArray(new String[policyList.size()]);

}

}

```

1.847 org.wso2.carbon.service.mgt.stub 4.2.0

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1.848 org.wso2.carbon.service.mgt.ui 4.2.0

1.848.1 Available under license :

```
<!--  
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-->

```
<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<%@ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>
<%@ page import="org.wso2.carbon.CarbonConstants" %>
<%@ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<%@ page import="org.apache.axis2.context.ConfigurationContext" %>
<%@ page import="org.wso2.carbon.service.mgt.ui.ServiceAdminClient" %>
<%@ page import="org.wso2.carbon.utils.ServerConstants" %>
<%@ page import="org.wso2.carbon.service.mgt.stub.types.carbon.ServiceMetaData" %>
<%@ page import="org.wso2.carbon.ui.CarbonUIMessage" %>
<%@ page import="org.wso2.carbon.ui.util.CharacterEncoder" %>
<fmt:bundle basename="org.wso2.carbon.service.mgt.ui.i18n.Resources">
<carbon:breadcrumb label="policy.editor.select.a.policy.to.edit"
resourceBundle="org.wso2.carbon.service.mgt.ui.i18n.Resources"
topPage="false" request="<%=request%>" />
```

```
<script type="text/javascript">
```

```
function createCookie(name, value, days) {
    if (days) {
        var date = new Date();
        date.setTime(date.getTime() + (days * 24 * 60 * 60 * 1000));
        var expires = "; expires=" + date.toGMTString();
    }
    else var expires = "";
    document.cookie = name + "=" + value + expires + "; path=/";
}

function readCookie(name) {
    var nameEQ = name + "=";
    var ca = document.cookie.split(';');
    for (var i = 0; i < ca.length; i++) {
        var c = ca[i];
        while (c.charAt(0) == ' ') c = c.substring(1, c.length);
        if (c.indexOf(nameEQ) == 0) return c.substring(nameEQ.length, c.length);
    }
    return null;
}

function cleanBreadCrumb(){
    // Read the existing breadcrumb value
    var breadCrumb = readCookie("current-breadcrumb");

    // Set the new value after removing policy pages
    var newBreadCrumb = breadCrumb.split("*")[0];
    createCookie("current-breadcrumb", newBreadCrumb);
}
```

</script>

<%

```
String serviceName = CharacterEncoder.getSafeText(request.getParameter("serviceName"));
String moduleName = CharacterEncoder.getSafeText(request.getParameter("moduleName"));
String moduleVersion = CharacterEncoder.getSafeText(request.getParameter("moduleVersion"));
String action = CharacterEncoder.getSafeText(request.getParameter("action"));
String operationName = CharacterEncoder.getSafeText(request.getParameter("operationName"));
String bindingName = CharacterEncoder.getSafeText(request.getParameter("bindingName"));
String messageType = CharacterEncoder.getSafeText(request.getParameter("messageType"));
String policyType = CharacterEncoder.getSafeText(request.getParameter("policyType"));
```

```
String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
```

```
ConfigurationContext configContext =
    (ConfigurationContext) config.getServletContext()
        .getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
```

```
String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
```

```
ServiceAdminClient client;
```

```
String servicePolicy =
```

```
"<wsp:Policy xmlns:wsp=\"http://schemas.xmlsoap.org/ws/2004/09/policy\"></wsp:Policy>";
```

```
try {
```

```
    client = new ServiceAdminClient(cookie, backendServerURL, configContext,
        request.getLocale());
```

```
    if ((action != null) && (action.equals("save"))) {
```

```
        if (policyType.equals("ServicePolicy")) {
            client.setServicePolicy(serviceName, request.getParameter("policy"));
```

```
        } else if (policyType.equals("ServiceOperationPolicy")) {
            client.setServiceOperationPolicy(serviceName, operationName,
                request.getParameter("policy"));
```

```
        } else if (policyType.equals("ServiceOperationMessagePolicy")) {
            client.setServiceOperationMessagePolicy(serviceName, operationName, messageType,
                request.getParameter("policy"));
```

```
        } else if (policyType.equals("BindingPolicy")) {
            client.setBindingPolicy(serviceName, bindingName, request.getParameter("policy"));
```

```
        } else if (policyType.equals("BindingOperationPolicy")) {
            client.setBindingOperationPolicy(serviceName, bindingName, operationName,
                request.getParameter("policy"));
```

```
        } else if (policyType.equals("BindingOperationMessagePolicy")) {
            client.setBindingOperationMessagePolicy(serviceName, bindingName, operationName,
                messageType,
                request.getParameter("policy"));
```

```
        } else if (policyType.equals("ModulePolicy")) {
            client.setModulePolicy(moduleName, moduleVersion, request.getParameter("policy"));
```

```
        } else {
```



```

        // Fallback to the legacy method, which applies policies to bindings
        client.setPolicy(serviceName, request.getParameter("policy"));
    }

    if (policyType.equals("ModulePolicy")) {
%>
<script type="text/javascript">
    cleanBreadCrumb();

    location.href =
        './modulemgt/module_info.jsp?moduleName=<%=moduleName%>&moduleVersion=<%=moduleVersion%>'
</script>
<%
    } else {
%>
<script type="text/javascript">
    cleanBreadCrumb();

    location.href = 'service_info.jsp?serviceName=<%=serviceName%>'
</script>
<%
    }
} else if ((action != null) && (action.equals("getpolicy"))) {

    if (policyType.equals("ServicePolicy")) {
        servicePolicy = client.getPolicy(serviceName).toString();
    } else if (policyType.equals("ServiceOperationPolicy")) {
        servicePolicy = client.getOperationPolicy(serviceName, operationName).toString();
    } else if (policyType.equals("ServiceOperationMessagePolicy")) {
        servicePolicy = client.getOperationMessagePolicy(serviceName, operationName, messageType)
            .toString();
    } else if (policyType.equals("BindingPolicy")) {
        servicePolicy = client.getBindingPolicy(serviceName, bindingName).toString();
    } else if (policyType.equals("BindingOperationPolicy")) {
        servicePolicy = client.getBindingOperationPolicy(serviceName, bindingName, operationName)
            .toString();
    } else if (policyType.equals("BindingOperationMessagePolicy")) {
        servicePolicy = client.getBindingOperationMessagePolicy(serviceName, bindingName,
            operationName, messageType)
            .toString();
    } else if (policyType.equals("ModulePolicy")) {
        servicePolicy = client.getModulePolicy(moduleName, moduleVersion).toString();
    } else {
        // Fallback to the legacy method, which gets policies from the bindings
        servicePolicy = client.getPolicy(serviceName).toString();
    }
%>
<div style="display: none;">

```

```

<form name="frmPolicyData" action="../policyeditor/index.jsp" method="post">
  <input type="hidden" name="policy" id="policy">
  <input type="hidden" name="visited" id="visited">
  <textarea id="txtPolicy" rows="50" cols="50"><%=servicePolicy%>
</textarea>
  <input type="hidden" name="callbackURL"
    value="../service-
mgt/policy_editor_proxy.jsp?serviceName=<%=serviceName%>&moduleName=<%=moduleName%>&moduleVe
rsion=<%=moduleVersion%>&action=save&operationName=<%=operationName%>&bindingName=<%=binding
Name%>&messageType=<%=messageType%>&policyType=<%=policyType%>"/>
  </form>
</div>
<script type="text/javascript">
  // Handling the browser back button for Firefox. The IE back button is handled form the policy editor index.jsp
page
  if (document.frmPolicyData.visited.value == "")
  {
    // This is a fresh page load
    document.frmPolicyData.visited.value = "1";

    function submitForm() {
      document.getElementById("policy").value = document.getElementById("txtPolicy").value
      document.frmPolicyData.submit();
    }
    submitForm();
  }
  else
  {
    location.href = '<%=request.getHeader("Referer")%>';
  }
</script>
<%
} else {
  // Retrieving service meta-data
  ServiceMetaData serviceData = client.getServiceData(serviceName);
%>
<div id="middle">
<h2><fmt:message key="policy.editor.select.a.policy.to.edit"/></h2>

<div id="workArea">
<table id="service-hierarchy-table" class="styledLeft">
<thead>
  <tr>
    <th colspan="3"><fmt:message key="service.hierarchy"/></th>
  </tr>
</thead>
<form action="policy_editor_proxy.jsp" name="frmPolicyMetaData">
<tr>

```

```

<td class="sub-header" colspan="2">

    <input type="hidden" name="action" value="getpolicy"/>
    <input type="hidden" name="serviceName" value="<%=serviceName%>"/>
    <input type="hidden" name="policyType" value="ServicePolicy"/>

    <fmt:message key="service"/> <%=serviceName%>
</td>
<td class="sub-header">
    <input class="button" type="submit" value="<fmt:message key="edit.policy"/>"/>

</td>
</tr>
</form>
<%
String[] operations = serviceData.getOperations();
if (operations.length > 0) {
%>
<form action="policy_editor_proxy.jsp" name="frmPolicyMetaData">
    <input type="hidden" name="action" value="getpolicy"/>
    <input type="hidden" name="serviceName" value="<%=serviceName%>"/>
    <input type="hidden" name="policyType" value="ServiceOperationPolicy"/>
<tr>
    <td colspan="2">
        <fmt:message key="operation"/>
        <select name="operationName">
            <%
                for (int x = 0; x < operations.length; x++) {
            %>
            <option value="<%=operations[x]%>"><%=operations[x]%>
            </option>
            <%
                }
            %>
        </select>
    </td>
    <td><input class="button" type="submit"
        value="<fmt:message key="edit.policy"/>"/>

    </td>
</tr>
</form>
<form action="policy_editor_proxy.jsp" name="frmPolicyMetaData">
    <input type="hidden" name="action" value="getpolicy"/>
    <input type="hidden" name="serviceName" value="<%=serviceName%>"/>
    <input type="hidden" name="policyType" value="ServiceOperationMessagePolicy"/>
<tr>
    <td width="30%">

```

```

<fmt:message key="operation"/>
  <select name="operationName">
    <%
      for (int x = 0; x < operations.length; x++) {
    %>
    <option value="<%=operations[x]%>"><%=operations[x]%>
    </option>
    <%
      }
    %>
  </select>
</td>
<td width="30%">
  <nobr>
    <input type="radio" name="messageType" id="in.msg" value="In" checked>
    <label for="in.msg">
      <fmt:message key="in.message"/>
    </label>
    <input type="radio" name="messageType" id="out.msg" value="Out">
    <label for="out.msg">
      <fmt:message key="out.message"/>
    </label>
  </nobr>
</td>
<td><input class="button" type="submit"
      value="<fmt:message key="edit.policy"/>" />

</td>
</tr>
</form>
<%
} else {
%>
<form action="policy_editor_proxy.jsp" name="frmPolicyMetaData">
  <input type="hidden" name="action" value="getpolicy"/>
  <input type="hidden" name="serviceName" value="<%=serviceName%>" />
  <input type="hidden" name="policyType" value="ServicePolicy"/>
<tr class="sub-header">
  <td colspan="2"><fmt:message key="service"/> <%=serviceName%>

  <td><input class="button" type="submit"
      value="<fmt:message key="edit.policy"/>" />

  </td>
</tr>
</form>
<%
}

```

```

%>
<%
    String[] bindings = client.getServiceBindings(serviceName);
    if (bindings.length > 0) {
%>
</table>
<br>
<br>
<table id="binding-hierarchy-table" class="styledLeft">
    <thead>
        <tr>
            <th colspan="3"><fmt:message key="binding.hierarchy"/></th>
        </tr>
    </thead>
    <%

        for (int y = 0; y < bindings.length; y++) {

%>
<form action="policy_editor_proxy.jsp" name="frmPolicyMetaData">
    <input type="hidden" name="action" value="getpolicy"/>
    <input type="hidden" name="serviceName" value="<%=serviceName%>"/>
    <input type="hidden" name="bindingName" value="<%=bindings[y]%>"/>
    <input type="hidden" name="policyType" value="BindingPolicy"/>
    <tr>
        <td class="sub-header" colspan="2">

            <fmt:message
                key="binding"/> <%=bindings[y]%>
            </td>
            <td class="sub-header"><input class="button" type="submit"
                value="<fmt:message key="edit.policy"/>"/>

            </td>
        </tr>
    </form>
    <form action="policy_editor_proxy.jsp" name="frmPolicyMetaData">
        <input type="hidden" name="action" value="getpolicy"/>
        <input type="hidden" name="serviceName" value="<%=serviceName%>"/>
        <input type="hidden" name="bindingName" value="<%=bindings[y]%>"/>
        <input type="hidden" name="policyType" value="BindingOperationPolicy"/>
    <tr>
        <td colspan="2">

```

```

<fmt:message key="operation"/>
<select name="operationName">
  <%
    for (int x = 0; x < operations.length; x++) {
  %>
  <option value="<%=operations[x]%>"><%=operations[x]%>
  </option>
  <%
    }
  %>
</select>
</td>
<td><input class="button" type="submit"
      value="<fmt:message key="edit.policy"/>" />
</td>
</tr>
</form>
<form action="policy_editor_proxy.jsp" name="frmPolicyMetaData">
  <input type="hidden" name="action" value="getpolicy"/>
  <input type="hidden" name="serviceName" value="<%=serviceName%>" />
  <input type="hidden" name="bindingName" value="<%=bindings[y]%>" />
  <input type="hidden" name="policyType" value="BindingOperationMessagePolicy"/>
<tr>
  <td width="30%">
    <fmt:message key="operation"/> <select name="operationName">
      <%
        for (int x = 0; x < operations.length; x++) {
      %>
      <option value="<%=operations[x]%>"><%=operations[x]%>
      </option>
      <%
        }
      %>
    </select>
  </td>
  <td width="30%">
    <nobr>
      <input type="radio" name="messageType" id="op.in.msg" value="In"
        checked>
      <label for="op.in.msg">
        <fmt:message key="in.message"/>
      </label>
      <input type="radio" name="messageType" id="op.out.msg" value="Out">
      <label for="op.out.msg">

```

```

                <fmt:message key="out.message"/>
            </label>
        </nobr>
    </td>
    <td><input class="button" type="submit"
        value="<fmt:message key="edit.policy"/>"/>

    </td>
</tr>
</form>
<%

    }
}

%>
</table>
</div>
</div>
<script type="text/javascript">
    alternateTableRows('service-hierarchy-table', 'tableEvenRow', 'tableOddRow');
    alternateTableRows('binding-hierarchy-table', 'tableEvenRow', 'tableOddRow');
</script>
<%
}
} catch (Exception exception) {
    CarbonUIMessage.sendCarbonUIMessage(exception.getMessage(), CarbonUIMessage.ERROR, request,
exception);
%>
    <script type="text/javascript">
        location.href = "../admin/error.jsp";
    </script>
<%
    return;
}
%>
</fmt:bundle>

```

1.849 org.wso2.carbon.sso.redirector.ui 2.2.0

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1.850 org.wso2.carbon.startup 4.2.0

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1.853 org.wso2.carbon.statistics.transport

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1.855 org.wso2.carbon.statistics.transport.ui

4.2.0

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1.856 org.wso2.carbon.statistics.ui 4.2.1

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```
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-->
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage" %>
<% @ page import="org.wso2.carbon.statistics.ui.StatisticsAdminClient" %>
<% @ page import="org.wso2.carbon.statistics.stub.webapp.StatisticData" %>

<%
    response.setHeader("Cache-Control", "no-cache");

    String webAppName = request.getParameter("webAppNameName");
```

```

if(webAppName.contains(".war")){
    webAppName = webAppName.trim().substring(0, webAppName.length()-4);
}

String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
ConfigurationContext configContext =
    (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);

String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);

StatisticsAdminClient adminClient = new
StatisticsAdminClient(cookie,backendServerURL,configContext,request.getLocale());

StatisticData statisticData = null;

try {
    statisticData = adminClient.getWebappStatistics(webAppName);
} catch (Exception e) {
    if(e.getCause().getMessage().toLowerCase().indexOf("you are not authorized") == -1){
        response.setStatus(500);
        CarbonUIMessage uiMsg = new CarbonUIMessage(CarbonUIMessage.ERROR, e.getMessage(), e);
        session.setAttribute(CarbonUIMessage.ID, uiMsg);
    }
}

%>
<!--<jsp:include page="../admin/error.jsp"/>-->
<%
}
return;
}
%>
<fmt:bundle basename="org.wso2.carbon.statistics.ui.i18n.Resources">
<table class="styledLeft" id="serviceStatsTable" width="100%" style="margin-left: 0px;">
<thead>
<tr>
<th colspan="2" align="left"><fmt:message key="statistics"/></th>
</tr>
</thead>
<tr class="tableOddRow">
<td width="30%"><fmt:message key="request.count"/></td>
<td><%=statisticData.getRequestCount()%>
</td>
</tr>
<tr class="tableEvenRow">
<td><fmt:message key="response.count"/></td>
<td><%=statisticData.getResponseCount() %>
</td>
</tr>
<tr class="tableOddRow">

```

```

<td><fmt:message key="fault.count"/></td>
<td><%=statisticData.getFaultCount() %>
</td>
</tr>
<tr class="tableEvenRow">
<td><fmt:message key="maximum.response.time"/></td>
<td><%=statisticData.getMaximumResponseTime() %> ms</td>
</tr>
<tr class="tableOddRow">
<td><fmt:message key="minimum.response.time"/></td>
<td>
<%if (statisticData.getMinimumresponseTime() == 0 &&
statisticData.getResponseCount() > 0) { %>
<&lt; 1.00 ms
<% } else { %>
<%=statisticData.getMinimumresponseTime() %> ms
<% } %>
</td>
</tr>
<tr class="tableEvenRow">
<td><fmt:message key="average.response.time"/></td>
<td><%=((float) Math.round(statisticData.getAverageResponseTime() * 1000)) / 1000%> ms</td>
</tr>
<tr>
<td colspan="2">&nbsp;</td>
</tr>
<tr>
<td colspan="2" align="left"><u><fmt:message key="average.response.time.vs.time"/></u>
</td>
</tr>
<tr>
<td colspan="2">
<div id="responseTimeGraph" style="width:500px;height:300px;"></div>
</td>
</tr>
<script type="text/javascript">
jQuery.noConflict();
function drawResponseTimeGraph() {
jQuery.plot(jQuery("#responseTimeGraph"), [
{
data: graphAvgResponse.get(),
lines: { show: true, fill: true }
}
], {
xaxis: {
ticks: graphAvgResponse.tick(),
min: 0
},

```



```

        yaxis: {
            ticks: 10,
            min: 0
        }
    });
}
try {
    graphAvgResponse.add(<%= statisticData.getAverageResponseTime() %>);
    drawResponseTimeGraph();
} catch (e) {
} // ignored
</script>
</table>
</fmt:bundle>

```

1.857 org.wso2.carbon.stratos.common 2.2.0

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```

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 */
package org.wso2.carbon.stratos.common.config;

import org.apache.axiom.om.OMElement;

import javax.xml.namespace.QName;
import java.util.Iterator;

public class PermissionConfig {
    private static final String CONFIG_NS = "http://wso2.com/carbon/cloud/mgt/services";
    private static final String PATH = "path";
    private static final String NAME = "name";
    String name;
    String path;
}

```

```

public PermissionConfig(OMEElement configEle) {
    serialize(configEle);
}

public void serialize(OMEElement configEle) {

    Iterator configChildIt = configEle.getChildElements();
    while (configChildIt.hasNext()) {
        Object configChildObj = configChildIt.next();
        if (!(configChildObj instanceof OMEElement)) {
            continue;
        }
        OMEElement configChildEle = (OMEElement)configChildObj;
        if (new QName(CONFIG_NS, NAME, "").
            equals(configChildEle.getQName())) {
            name = configChildEle.getText();
        } else if (new QName(CONFIG_NS, PATH, "").
            equals(configChildEle.getQName())) {
            path = configChildEle.getText();
        }
    }
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getPath() {
    return path;
}

public void setPath(String path) {
    this.path = path;
}
}

```

1.858 org.wso2.carbon.stratos.common.stub

4.2.0

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1.859

org.wso2.carbon.stratos.landing.page.deployer 2.2.0

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1.860 org.wso2.carbon.sts 4.2.1

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*/

```
package org.wso2.carbon.sts;
```

```
import org.apache.axiom.om.OMElement;  
import org.apache.axis2.AxisFault;  
import org.apache.axis2.description.AxisModule;  
import org.apache.axis2.description.AxisService;  
import org.apache.axis2.description.AxisServiceGroup;  
import org.apache.axis2.description.Parameter;  
import org.apache.axis2.engine.AxisConfiguration;  
import org.apache.axis2.engine.AxisEvent;  
import org.apache.axis2.engine.AxisObserver;  
import org.apache.commons.logging.Log;  
import org.apache.commons.logging.LogFactory;  
import org.apache.rahas.impl.AbstractIssuerConfig;  
import org.apache.rahas.impl.SAMLTokenIssuerConfig;  
import org.apache.rahas.impl.TokenIssuerUtil;  
import org.wso2.carbon.base.MultitenantConstants;  
import org.wso2.carbon.base.ServerConfiguration;  
import org.wso2.carbon.context.CarbonContext;  
import org.wso2.carbon.core.RegistryResources;  
import org.wso2.carbon.core.deployment.DeploymentInterceptor;  
import org.wso2.carbon.core.util.KeyStoreManager;  
import org.wso2.carbon.core.util.KeyStoreUtil;  
import org.wso2.carbon.registry.core.Registry;  
import org.wso2.carbon.registry.core.Resource;  
import org.wso2.carbon.registry.core.utils.RegistryUtils;  
import org.wso2.carbon.security.keystore.KeyStoreAdmin;  
import org.wso2.carbon.security.keystore.service.KeyStoreData;  
import org.wso2.carbon.security.util.RampartConfigUtil;  
import org.wso2.carbon.security.util.ServerCrypto;  
import org.wso2.carbon.sts.internal.STSServiceDataHolder;  
import org.wso2.carbon.utils.ServerConstants;
```

```
import java.security.KeyStore;  
import java.util.ArrayList;  
import java.util.HashMap;  
import java.util.Iterator;  
import java.util.List;  
import java.util.Map;  
import java.util.Map.Entry;  
import java.util.Properties;
```

```
/**
```

```
 * This deployment interceptor will be called whenever STS service being deployed.
```

```

*
* @see AxisObserver
*/
public class STSDeploymentInterceptor implements AxisObserver {

    private static final Log log = LogFactory.getLog(DeploymentInterceptor.class);

    /**
     * {@inheritDoc}
     */
    public void serviceUpdate(AxisEvent event, AxisService service) {
        if (event.getEventType() == AxisEvent.SERVICE_DEPLOY
            && ServerConstants.STS_NAME.equals(service.getName())) {
            try {
                updateSTSService(service.getAxisConfiguration());
            } catch (Exception e) {
                log.error("Error while updating " + ServerConstants.STS_NAME
                    + " in STSDeploymentInterceptor", e);
            }
        }
    }

    /**
     * Updates STS service during deployment
     *
     * @param config AxisConfiguration
     * @throws Exception
     */
    public static void updateSTSService(AxisConfiguration config) throws Exception {
        AxisService service = null;
        Registry configRegistry = null;
        Registry governRegistry = null;
        String keyPassword = null;
        KeyStoreAdmin admin = null;
        KeyStoreData[] keystores = null;
        String privateKeyAlias = null;
        String keyStoreName = null;
        String issuerName = null;
        ServerConfiguration serverConfig = null;

        int tenantId = CarbonContext.getThreadLocalCarbonContext().getTenantId();

        configRegistry = STSServiceDataHolder.getInstance().getRegistryService()
            .getConfigSystemRegistry(tenantId);
        governRegistry = STSServiceDataHolder.getInstance().getRegistryService()
            .getGovernanceSystemRegistry(tenantId);

        if (configRegistry == null || config.getService(ServerConstants.STS_NAME) == null) {

```

```

    if (log.isDebugEnabled()) {
        log.debug("configRegistry not set or STS service is unavailable");
    }
    return;
}

serverConfig = ServerConfiguration.getInstance();
admin = new KeyStoreAdmin(tenantId, governRegistry);

if(MultitenantConstants.SUPER_TENANT_ID == tenantId){
    keyPassword = serverConfig.getFirstProperty("Security.KeyStore.KeyPassword");
    keystores = admin.getKeyStores(true);

    for (int i = 0; i < keystores.length; i++) {
        if (KeyStoreUtil.isPrimaryStore(keystores[i].getKeyStoreName())) {
            keyStoreName = keystores[i].getKeyStoreName();
            privateKeyAlias = KeyStoreUtil.getPrivateKeyAlias(KeyStoreManager.getInstance(
                MultitenantConstants.SUPER_TENANT_ID)
                .getKeyStore(keyStoreName));
            break;
        }
    }
} else {
    // this is not the proper way to find out the primary key store of the tenant. We need
    // check a better way TODO
    String tenantDomain = CarbonContext.getThreadLocalCarbonContext().getTenantDomain();
    if(tenantDomain == null){
        tenantDomain = STSServiceDataHolder.getInstance().getRealmService().
            getTenantManager().getDomain(tenantId);
    }

    if(tenantDomain != null){
        // assuming domain always in this format -> example.com
        keyStoreName = tenantDomain.replace(".", "-") + ".jks";
        KeyStore keyStore = KeyStoreManager.getInstance(tenantId).getKeyStore(keyStoreName);
        if(keyStore != null){
            privateKeyAlias = KeyStoreUtil.getPrivateKeyAlias(keyStore);
            keyPassword = KeyStoreManager.getInstance(tenantId).getKeyStorePassword(keyStoreName);
        } else {
            log.warn("No key store is exist as " + keyStoreName + ". STS would be fail");
        }
    } else {
        throw new Exception("Tenant Domain can not be null");
    }
}

issuerName = serverConfig.getFirstProperty("HostName");

```

```

if (issuerName == null) {
    // HostName not set :( use wso2wsas-sts
    issuerName = ServerConstants.STS_NAME;
}

if (privateKeyAlias != null) {
    service = config.getService(ServerConstants.STS_NAME);

    String cryptoProvider = ServerCrypto.class.getName();

    Properties props = RampartConfigUtil.getServerCryptoProperties(
        new String[]{keyStoreName}, keyStoreName, privateKeyAlias);

    SAMLTokenIssuerConfig stsSamlConfig = new SAMLTokenIssuerConfig(issuerName,
        cryptoProvider, props);
    stsSamlConfig.setIssuerKeyAlias(privateKeyAlias);
    stsSamlConfig.setIssuerKeyPassword(keyPassword);
    stsSamlConfig.setAddRequestedAttachedRef(true);
    stsSamlConfig.setAddRequestedUnattachedRef(true);
    stsSamlConfig.setKeyComputation(2);
    stsSamlConfig.setProofKeyType(TokenIssuerUtil.BINARY_SECRET);

    String resourcePath = null;
    resourcePath = RegistryResources.SERVICE_GROUPS + ServerConstants.STS_NAME
        + RegistryResources.SERVICES + ServerConstants.STS_NAME + "/trustedServices";
    if (configRegistry.resourceExists(resourcePath)) {
        Resource trustedService = null;
        Properties properties = null;
        Iterator iterator = null;
        trustedService = configRegistry.get(resourcePath);
        properties = trustedService.getProperties();
        if (properties != null && !properties.isEmpty()) {
            iterator = properties.entrySet().iterator();
            while (iterator.hasNext()) {
                Entry entry = (Entry) iterator.next();
                if(RegistryUtils.isHiddenProperty(entry.getKey().toString())){
                    continue;
                }
                stsSamlConfig.addTrustedServiceEndpointAddress((String) entry.getKey(),
                    (String) ((List) entry.getValue()).get(0));
            }
        }
    }

    //Set the TTL value read from the carbon.xml
    String ttl = serverConfig.getFirstProperty("STSTimeToLive");

```

```

if (ttl != null && ttl.length() > 0) {
    try {
        stsSamlConfig.setTtl(Long.parseLong(ttl));
        if (log.isDebugEnabled()) {
            log.debug("STSTimeToLive read from carbon.xml " + ttl);
        }
    } catch (NumberFormatException e) {
        log.error("Error while reading STSTimeToLive from carbon.xml", e);
    }
}

//set if token store is disabled
String tokenStoreDisabled = serverConfig.getFirstProperty("Security.DisableTokenStore");
if (tokenStoreDisabled != null) {
    stsSamlConfig.setTokenStoreDisabled(Boolean.parseBoolean(tokenStoreDisabled));
}

//Set persister configuration reading from carbon.xml
String persisterClassName = serverConfig.getFirstProperty(
    "Security.TokenPersister.Class");
String persistingFilePath = serverConfig.getFirstProperty(
    "Security.TokenPersister.StoragePath");
String inMemoryThreshold = serverConfig.getFirstProperty(
    "Security.TokenPersister.InMemoryThreshold");

if (persisterClassName != null) {
    stsSamlConfig.setPersisterClassName(persisterClassName);
}

Map<String, String> propertyMap = new HashMap<String, String>();
if (persistingFilePath != null) {
    propertyMap.put(AbstractIssuerConfig.LOCAL_PROPERTY_STORAGE_PATH, persistingFilePath);
}

if (inMemoryThreshold != null) {
    propertyMap.put(AbstractIssuerConfig.LOCAL_PROPERTY_THRESHOLD, inMemoryThreshold);
}

if (log.isDebugEnabled()) {
    if (persisterClassName != null && inMemoryThreshold == null) {
        log.debug("Although persister is defined, threshold not defined.");
    }
}

//allow defining any additional properties related to token persister.
String[] persisterPropertyNames = serverConfig.getProperties(
    "Security.TokenPersister.Properties.Property.Name");
String[] persisterPropertyValues = serverConfig.getProperties(
    "Security.TokenPersister.Properties.Property.Value");
if (persisterPropertyNames.length != 0 && persisterPropertyValues.length != 0) {
    if (persisterPropertyNames.length == persisterPropertyValues.length) {
        for (int i = 0; i < persisterPropertyNames.length; i++) {
            propertyMap.put(persisterPropertyNames[i], persisterPropertyValues[i]);
        }
    }
}

```



```

    }
    }
}
if (propertyMap.size() != 0) {
    stsSamlConfig.setPersisterPropertyMap(propertyMap);
}

try {
    // remove param is exists
    Parameter param = service.getParameter(SAMLTokenIssuerConfig.SAML_ISSUER_CONFIG
        .getLocalPart());
    if (param == null) {
        // Add new parameter
        service.addParameter(stsSamlConfig.getParameter());
    }
} catch (AxisFault e) {
    log_error("Error while updating " + ServerConstants.STS_NAME
        + " in STSDeploymentInterceptor", e);
}
}
}

/**
 * {@inheritDoc}
 */
public void init(AxisConfiguration arg0) {
    // TODO Auto-generated method stub
}

/**
 * {@inheritDoc}
 */
public void moduleUpdate(AxisEvent arg0, AxisModule arg1) {
    // TODO Auto-generated method stub
}

/**
 * {@inheritDoc}
 */
public void serviceGroupUpdate(AxisEvent event, AxisServiceGroup group) {
    // TODO Auto-generated method stub
}

/**
 * {@inheritDoc}
 */
public void addParameter(Parameter arg0) throws AxisFault {
    // TODO Auto-generated method stub
}

```

```

}

/**
 * {@inheritDoc}
 */
public void deserializeParameters(OMEElement arg0) throws AxisFault {
    // TODO Auto-generated method stub
}

/**
 * {@inheritDoc}
 */
public Parameter getParameter(String arg0) {
    // TODO Auto-generated method stub
    return null;
}

/**
 * {@inheritDoc}
 */
public ArrayList getParameters() {
    // TODO Auto-generated method stub
    return null;
}

/**
 * {@inheritDoc}
 */
public boolean isParameterLocked(String arg0) {
    // TODO Auto-generated method stub
    return false;
}

/**
 * {@inheritDoc}
 */
public void removeParameter(Parameter arg0) throws AxisFault {
    // TODO Auto-generated method stub
}
}
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```

```
package org.wso2.carbon.sts;
```

```

import org.apache.axiom.om.OMElement;
import org.apache.axis2.AxisFault;
import org.apache.axis2.context.ConfigurationContext;
import org.apache.axis2.deployment.*;
import org.apache.axis2.deployment.repository.util.ArchiveReader;
import org.apache.axis2.deployment.repository.util.DeploymentFileData;
import org.apache.axis2.description.AxisOperation;
import org.apache.axis2.description.AxisService;
import org.apache.axis2.description.AxisServiceGroup;
import org.apache.axis2.engine.AxisConfiguration;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.osgi.framework.Bundle;
import org.wso2.carbon.context.CarbonContext;
import org.wso2.carbon.core.multitenancy.MultitenantDispatcher;
import org.wso2.carbon.sts.internal.STSServiceDataHolder;
import org.wso2.carbon.utils.AbstractAxis2ConfigurationContextObserver;
import org.wso2.carbon.utils.IOStreamUtils;
import org.wso2.carbon.utils.deployment.Axis2ServiceRegistry;
import org.wso2.carbon.utils.deployment.BundleClassLoader;

```

```

import javax.xml.stream.XMLStreamException;
import java.io.*;
import java.net.URL;
import java.util.*;

```

```
/**
```

```
* This deploys a wso2carbon-sts service when tenant is loaded.
```

```
*/
```

```
public class STSDeploymentListener extends AbstractAxis2ConfigurationContextObserver {
```

```
    private static final Log log = LogFactory.getLog(STSDeploymentListener.class);
```

```
    private static String componentsDirPath;
```

```

static {
    String carbonRepo = System.getenv("CARBON_REPOSITORY");
    if(carbonRepo == null){
        carbonRepo = System.getProperty("carbon.repository");
    }
    if(carbonRepo == null){
        carbonRepo = System.getProperty("carbon.home") + File.separator + "repository";
    }
    componentsDirPath = carbonRepo + File.separator + "components";
}

@Override
public void createdConfigurationContext(ConfigurationContext configContext) {

    AxisService service = null;
    try {
        service = configContext.getAxisConfiguration().getService("wso2carbon-sts");
    } catch (AxisFault axisFault) {
        // just ignore service is not in axis2 configuration
    }

    // creating service if it is null

    if(service == null){
        configContext.getAxisConfiguration().addObservers(new STSDeploymentInterceptor());
        Bundle bundle = STSServiceDataHolder.getInstance().getBundle();
        AxisServiceGroup serviceGroup = createService(bundle, configContext);
        if(serviceGroup != null){
            try {
                configContext.getAxisConfiguration().addServiceGroup(serviceGroup);
            } catch (AxisFault axisFault) {
                log.error("Error occurs while adding wso2carbon-sts service group in to axis2" +
                    "configuration of tenant " +
                    CarbonContext.getThreadLocalCarbonContext().getTenantId() , axisFault);
            }
        }
    }
}

private AxisServiceGroup createService(Bundle bundle, ConfigurationContext configContext) {

    Enumeration enumeration = bundle.findEntries("META-INF", "*services.xml", true);
    AxisServiceGroup serviceGroup = null;
    AxisConfiguration axisConfiguration = configContext.getAxisConfiguration();

    if(enumeration != null && enumeration.hasMoreElements()) {
        try {

```

```

serviceGroup = new AxisServiceGroup(axisConfiguration);
ClassLoader loader =
    new BundleClassLoader(bundle, Axis2ServiceRegistry.class.getClassLoader());
URL url = (URL) enumeration.nextElement();
Dictionary headers = bundle.getHeaders();
String bundleSymbolicName = (String) headers.get("Bundle-SymbolicName");
serviceGroup.setServiceGroupName(bundleSymbolicName);
serviceGroup.setServiceGroupClassLoader(loader);
InputStream inputStream = url.openStream();
DescriptionBuilder builder = new DescriptionBuilder(inputStream, configContext);
OMEElement rootElement = builder.buildOM();
String elementName = rootElement.getLocalName();
HashMap<String,AxisService> wsdlServicesMap = processWSDL(bundle);
if (wsdlServicesMap != null && wsdlServicesMap.size() > 0) {
    for (AxisService service : wsdlServicesMap.values()) {
        Iterator<AxisOperation> operations = service.getOperations();
        while (operations.hasNext()) {
            AxisOperation axisOperation = operations.next();
            axisConfiguration.getPhasesInfo().setOperationPhases(axisOperation);
        }
    }
}
if (DeploymentConstants.TAG_SERVICE.equals(elementName)) {
    AxisService axisService = new AxisService(bundleSymbolicName);
    axisService.setParent(serviceGroup);
    axisService.setClassLoader(loader);
    ServiceBuilder serviceBuilder = new ServiceBuilder(configContext, axisService);
    serviceBuilder.setWsdServiceMap(wsdlServicesMap);
    AxisService service = serviceBuilder.populateService(rootElement);
    ArrayList<AxisService> serviceList = new ArrayList<AxisService>();
    serviceList.add(service);
    DeploymentEngine.addServiceGroup(serviceGroup,
        serviceList,
        null,
        null,
        axisConfiguration);
    if (log.isDebugEnabled()) {
        log.debug("Deployed wso2carbon-sts service");
    }
} else if (DeploymentConstants.TAG_SERVICE_GROUP.equals(elementName)) {
    ServiceGroupBuilder groupBuilder =
        new ServiceGroupBuilder(rootElement, wsdlServicesMap,
            configContext);
    ArrayList<? extends AxisService> serviceList = groupBuilder.populateServiceGroup(serviceGroup);
    DeploymentEngine.addServiceGroup(serviceGroup,
        serviceList,
        null,
        null,

```

```

        axisConfiguration);
    if (log.isDebugEnabled()) {
        log.debug("Deployed wso2carbon-sts service group ");
    }
}

} catch (AxisFault axisFault) {
    log.error("Error occur while deploying wso2carbon-sts service for tenant " +
        CarbonContext.getThreadLocalCarbonContext().getTenantId() , axisFault);
} catch (XMLStreamException e) {
    log.error("Error occur while deploying wso2carbon-sts service for tenant " +
        CarbonContext.getThreadLocalCarbonContext().getTenantId() , e);
} catch (IOException e) {
    log.error("Error occur while deploying wso2carbon-sts service for tenant " +
        CarbonContext.getThreadLocalCarbonContext().getTenantId() , e);
}
}

return serviceGroup;
}

private HashMap processWSDL(Bundle bundle) throws IOException, XMLStreamException {
    Enumeration enumeration = bundle.findEntries("META-INF", "*.wsdl", true);
    if (enumeration == null) {
        return new HashMap();
    }

    String bundleLocation = bundle.getLocation();
    // Sometimes value of the bundleLocation can be a string such as the following.
    // reference:file:plugins/org.wso2.carbon.statistics-3.2.0.jar
    // In these situations we need to remove the "reference:" part from the bundleLocation.
    if (bundleLocation.startsWith("reference:")) {
        bundleLocation = bundleLocation.substring("reference:".length());
    }

    // Extracting bundle file name.
    String[] subStrings = bundleLocation.split("/");
    String bundleFileName = subStrings[subStrings.length - 1];

    File bundleFile;
    URL bundleURL = new URL(bundleLocation);

    if (bundleURL.getProtocol().equals("file")) {
        bundleFile = new File(bundleURL.getFile());
    } else {
        InputStream bundleStream = bundleURL.openStream();

```

```

// Generate temp file path for the bundle.
String tempBundleDirPath = System.getProperty("java.io.tmpdir") + File.separator + "bundles";

//Creating a temp dir to store bundles.
File tempBundleDir = new File(tempBundleDirPath);
if (!tempBundleDir.exists() && !tempBundleDir.mkdir()) {
    log.warn("Could not create temp bundle directory " + tempBundleDir.getAbsolutePath());
    return new HashMap();
}

bundleFile = new File(tempBundleDirPath, bundleFileName);
OutputStream bundleFileOutputStream = new FileOutputStream(bundleFile);

// Copying input stream to the file output stream
IOStreamUtils.copyInputStream(bundleStream, bundleFileOutputStream);
}

if (!bundleFile.exists()) {
    //If the bundle does not exists, then we check in the plugins dir.
    bundleFile = new File(componentsDirPath + File.separator + bundleURL.getFile());
}

if (!bundleFile.exists()) {
    return new HashMap();
}

DeploymentFileData deploymentFileData = new DeploymentFileData(bundleFile);
ArchiveReader archiveReader = new ArchiveReader();
return archiveReader.processWSDLs(deploymentFileData);
}
}

```

1.861 org.wso2.carbon.sts.stub 4.2.0

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1.862 org.wso2.carbon.sts.ui 4.2.0

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1.863 org.wso2.carbon.task 4.2.0

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1.864 org.wso2.carbon.task.services 4.2.0

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```

*/
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import org.apache.synapse.task.TaskConstants;
import org.apache.synapse.task.TaskScheduler;
import org.apache.synapse.task.TaskSchedulerFactory;

/**
 *
 */
public class TaskSchedulerServiceImpl implements TaskSchedulerService {
    private TaskScheduler taskScheduler;

    public TaskSchedulerServiceImpl() {
        this.taskScheduler = TaskSchedulerFactory.getTaskScheduler(TaskConstants.TASK_SCHEDULER);
    }

    public TaskScheduler getTaskScheduler() {
        return taskScheduler;
    }
}

/**
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 */
package org.wso2.carbon.task.services;

import org.apache.synapse.task.TaskConstants;
import org.apache.synapse.task.TaskDescriptionRepository;
import org.apache.synapse.task.TaskDescriptionRepositoryFactory;

/**
 *
 */
public class TaskDescriptionRepositoryServiceImpl implements TaskDescriptionRepositoryService {

    private TaskDescriptionRepository taskDescriptionRepository;

```

```

public TaskDescriptionRepositoryServiceImpl() {
    taskDescriptionRepository =
        TaskDescriptionRepositoryFactory.getTaskDescriptionRepository(
            TaskConstants.TASK_DESCRIPTION_REPOSITORY);
}

public TaskDescriptionRepository getTaskDescriptionRepository() {
    return taskDescriptionRepository;
}
}

```

1.865 org.wso2.carbon.task.stub 4.2.0

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1.866 org.wso2.carbon.task.ui 4.2.0

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1.867 org.wso2.carbon.tenant.dispatcher

2.2.0

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1.868 org.wso2.carbon.tenant.mgt 2.2.0

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1.869 org.wso2.carbon.tenant.mgt.core 2.2.0

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1.870 org.wso2.carbon.tenant.mgt.stub 4.2.0

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1.871 org.wso2.carbon.tenant.mgt.ui 2.2.0

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<% @ page import="org.wso2.carbon.tenant.mgt.ui.utils.TenantMgtUtil" %>
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<% @ page contentType="text/html;charset=UTF-8" language="java" %>
<script type="text/javascript" src="../admin/js/jquery.js"></script>
<script type="text/javascript" src="../admin/js/jquery.form.js"></script>
<script type="text/javascript" src="../dialog/js/jqueryui/jquery-ui.min.js"></script>

<%--<carbon:jsi18n--%>
<%--resourceBundle="org.wso2.carbon.tenant.mgt.ui.i18n.JSResources"--%>
<%--request="<%=request%>" />--%>

<div id="middle">
<%
```



```

// First remove captcha images first stored in webapps
String error1 = "Error in adding the tenant.";
String error2 = "Error in updating the tenant.";
boolean isUpdating = false;
String tenantId = "";
String tenantDomain = "";
String paramvalue = "addTenant=Success";
try {
    tenantId = request.getParameter("tenantId");
    tenantDomain = request.getParameter("domain");
    isUpdating = Boolean.parseBoolean(request.getParameter("isUpdating"));

    boolean isDomainAvailable=false;
    if(!isUpdating){
        isDomainAvailable = CommonUtil.isDomainNameAvailable(tenantDomain);
    }

    //if the request is for creating a new tenant and if the domain name is not available, show a warning

    if(tenantId == null && !isDomainAvailable){

%>
        <script type="text/javascript">
            jQuery(document).ready(function() {
                CARBON.showErrorDialog("Sorry!. The Domain '<%=tenantDomain%>'is already registered. Please
choose a different domain.");
            });
        </script>

<%
    }else if (tenantId == null && isDomainAvailable) {

        // if the request is for creating a new tenant and if th domain name is available. add the tenant
        TenantMgtUtil.addTenantConfigBean(request,config,session);
        response.sendRedirect("../tenant-
mgt/view_tenants.jsp?region=region3&item=govern_view_tenants_menu&"+paramvalue);
    }else if (tenantId !=null){
        //if the tenant id is given, it is a request to update.hence update the tenant info
        TenantMgtUtil.updateTenantConfigBean(request,config,session);
        isUpdating = true;
        paramvalue = "addTenant=SuccessUpdate";
        response.sendRedirect("../tenant-
mgt/view_tenants.jsp?region=region3&item=govern_view_tenants_menu&"+paramvalue);
    }

} catch (Exception e) {
    CarbonUIMessage uiMsg = new CarbonUIMessage(CarbonUIMessage.ERROR, e.getMessage(), e);
    request.setAttribute(CarbonUIMessage.ID, uiMsg);
}

```

```
    %>
    <jsp:forward page="../admin/error.jsp"/>
    <%
    return;
    }
    %>
</div>
```

1.872 org.wso2.carbon.theme.mgt 2.2.0

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1.873 org.wso2.carbon.throttle 4.2.0

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<wsp:Policy xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:throttle="http://www.wso2.org/products/wso2commons/throttle"
  wsu:Id="WSO2ModuleThrottlingPolicy">
  <throttle:ModuleThrottleAssertion>
```

```

<throttle:MaximumConcurrentAccess>10</throttle:MaximumConcurrentAccess>
<wsp:Policy>
  <throttle:ID throttle:type="IP">other</throttle:ID>
  <wsp:Policy>
    <throttle:Control>
      <wsp:Policy>
        <throttle:MaximumCount>10</throttle:MaximumCount>
        <throttle:UnitTime>800000</throttle:UnitTime>
        <throttle:ProhibitTimePeriod wsp:Optional="true">10000</throttle:ProhibitTimePeriod>
      </wsp:Policy>
    </throttle:Control>
  </wsp:Policy>
</throttle:ModuleThrottleAssertion>
</wsp:Policy>
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<wsp:Policy xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:throttle="http://www.wso2.org/products/wso2commons/throttle"
  wsu:Id="WSO2ServiceThrottlingPolicy">
  <throttle:ServiceThrottleAssertion>
    <throttle:MaximumConcurrentAccess>10</throttle:MaximumConcurrentAccess>
    <wsp:Policy>
      <throttle:ID throttle:type="IP">other</throttle:ID>
      <wsp:Policy>
        <throttle:Control>
          <wsp:Policy>
            <throttle:MaximumCount>10</throttle:MaximumCount>
            <throttle:UnitTime>800000</throttle:UnitTime>
            <throttle:ProhibitTimePeriod wsp:Optional="true">10000</throttle:ProhibitTimePeriod>
          </wsp:Policy>
        </throttle:Control>
      </wsp:Policy>
    </throttle:ServiceThrottleAssertion>
  </wsp:Policy>

```

```

    </wsp:Policy>
  </throttle:ServiceThrottleAssertion>
</wsp:Policy>
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<wsp:Policy xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:throttle="http://www.wso2.org/products/wso2commons/throttle"
  wsu:Id="WSO2MediatorThrottlingPolicy">
  <throttle:MediatorThrottleAssertion>
    <throttle:MaximumConcurrentAccess>10</throttle:MaximumConcurrentAccess>
    <wsp:Policy>
      <throttle:ID throttle:type="IP">other</throttle:ID>
      <wsp:Policy>
        <throttle:Control>
          <wsp:Policy>
            <throttle:MaximumCount>10</throttle:MaximumCount>
            <throttle:UnitTime>800000</throttle:UnitTime>
            <throttle:ProhibitTimePeriod wsp:Optional="true">10000</throttle:ProhibitTimePeriod>
          </wsp:Policy>
        </throttle:Control>
      </wsp:Policy>
    </wsp:Policy>
  </throttle:MediatorThrottleAssertion>
</wsp:Policy>
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  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:throttle="http://www.wso2.org/products/wso2commons/throttle"
  wsu:Id="WSO2OperationThrottlingPolicy">
  <throttle:OperationThrottleAssertion>
    <throttle:MaximumConcurrentAccess>10</throttle:MaximumConcurrentAccess>
  </throttle:OperationThrottleAssertion>
  <wsp:Policy>
    <throttle:ID throttle:type="IP">other</throttle:ID>
  </wsp:Policy>
  <wsp:Policy>
    <throttle:Control>
      <wsp:Policy>
        <throttle:MaximumCount>10</throttle:MaximumCount>
        <throttle:UnitTime>800000</throttle:UnitTime>
        <throttle:ProhibitTimePeriod wsp:Optional="true">10000</throttle:ProhibitTimePeriod>
      </wsp:Policy>
    </throttle:Control>
  </wsp:Policy>
</wsp:Policy>
```

1.874 org.wso2.carbon.throttle.core 4.2.0

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 *
 *
 *
 */
```

```

*/

package org.wso2.carbon.throttle.core;

import org.apache.axiom.om.OMElement;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.neethi.All;
import org.apache.neethi.ExactlyOne;
import org.apache.neethi.Policy;
import org.apache.neethi.builders.xml.XmlPrimitiveAssertion;
import org.wso2.carbon.throttle.core.factory.CallerConfigurationFactory;
import org.wso2.carbon.throttle.core.factory.ThrottleConfigurationFactory;
import org.wso2.carbon.throttle.core.factory.ThrottleContextFactory;

import java.util.Iterator;
import java.util.List;

/**
 * @deprecated The class for processing policy that specify throttle configuration
 */

public class ThrottlePolicyProcessor {

    private static Log log = LogFactory.getLog(ThrottlePolicyProcessor.class.getName());

    /**
     * @param policy - policy for throttle
     * @return Throttle - An object which holds Meta-Data about throttle
     * @throws ThrottleException - throws for errors in policy processing - ex : invalid policy
     * @deprecated process policy and returns throttle object
     */

    public static Throttle processPolicy(Policy policy) throws ThrottleException {

        if (policy == null) {
            //if policy is not available ,then return null for ThrottleConfiguration
            return null; // no policy is available in the module description
        }

        Throttle th = new Throttle();
        ThrottleConfiguration tc = null; // configuration data

        List al = policy.getPolicyComponents();

```

```

if (al == null || (al != null && al.isEmpty())) {
    handleException("Empty the policy components" +
        " as ThrottleAssertion's children");
}
for (Iterator i = al.iterator(); i.hasNext(); ) {
    Object tp = i.next();
    if (tp instanceof All) {

        // boolean isOtherConfiguration = false;
        // // To track default cn for all ips
        CallerConfiguration cn = null; // To create a
        //configurationbean object
        boolean isIPRangeFound = false;
        boolean isExactlyOneFound = false;
        ExactlyOne cp = null;
        List cL = ((All) tp).getAssertions();
        if (cL != null) {
            for (Iterator ci =
                cL.iterator(); ci.hasNext(); ) {
                Object ca = ci.next();
                if (ca instanceof XmlPrimitiveAssertion) {
                    XmlPrimitiveAssertion id = (XmlPrimitiveAssertion) ca;
                    OMElement el = id.getValue();

                    String t = el.getAttributeValue(
                        ThrottleConstants.THROTTLE_TYPE_ATTRIBUTE_QNAME);
                    if (t == null) {
                        handleException("Type of Throttle " +
                            "in the policy cannot be null");
                    }
                    if (t.equals("IP")) {
                        // create a ip based throttle context and configuration
                        tc = th.getThrottleConfiguration
                            (ThrottleConstants.IP_BASED_THROTTLE_KEY);
                        if (tc == null) {
                            tc =
                                ThrottleConfigurationFactory.
                                    createThrottleConfiguration(
                                        ThrottleConstants.IP_BASE);
                            th.addThrottleContext(
                                ThrottleConstants.IP_BASED_THROTTLE_KEY,
                                ThrottleContextFactory.createThrottleContext(
                                    ThrottleConstants.IP_BASE, tc));
                            th.addThrottleConfiguration(
                                ThrottleConstants.IP_BASED_THROTTLE_KEY, tc);
                        }
                        //create a callercontext for ip based throttle
                        cn = CallerConfigurationFactory.

```

```

        createCallerConfiguration(
            ThrottleConstants.IP_BASE);
    } else if (t.equals("DOMAIN")) {
        // create a domain based throttle context and configuration
        tc = th.getThrottleConfiguration(
            ThrottleConstants.DOMAIN_BASED_THROTTLE_KEY);
        if (tc == null) {
            tc =
                ThrottleConfigurationFactory.
                    createThrottleConfiguration(
                        ThrottleConstants.DOMAIN_BASE);
            th.addThrottleContext(
                ThrottleConstants.DOMAIN_BASED_THROTTLE_KEY,
                ThrottleContextFactory.createThrottleContext(
                    ThrottleConstants.DOMAIN_BASE, tc));
            th.addThrottleConfiguration(
                ThrottleConstants.DOMAIN_BASED_THROTTLE_KEY, tc);
        }
        //create a callercontext for domain based throttl
        cn =
            CallerConfigurationFactory.
                createCallerConfiguration(
                    ThrottleConstants.DOMAIN_BASE);
    } else {
        handleException("Unsupported throttle type : " + t);
    }
    if (cn != null) {

        // Name of the policy assertion
        String n = el.getLocalName();
        // Value of the policy assertion
        String v = el.getText();

        // If Value and Name are null,
        // then it is a invalid policy config
        if (n == null || v == null) {
            handleException("Either Value or" +
                " Name of the policy cannot be null");
        } else if (n.equals(ThrottleConstants.ID_PARAMETER_NAME)) {

            if (!v.equals("")) {

                isIPRangeFound = true;
                cn.setID(v);
            } else {
                handleException("Value of ID cannot find " +
                    "- invalid configuration");
            }
        }
    }

```

```

        } else {
            handleException("Undefined pocilcy property for" +
                " throttle - Expect ID ");
        }
    }

} else if (ca instanceof ExactlyOne) {
    cp = (ExactlyOne) ca;
}
}
}
if (cn != null) {
    if (cp != null) {
        List cal = cp.getPolicyComponents();
        boolean haveSelectOneFromExactlyOne = false;
        for (Iterator ci = cal.iterator(); ci.hasNext()
            && !haveSelectOneFromExactlyOne;) {
            Object co = ci.next();
            if (co instanceof All) {
                haveSelectOneFromExactlyOne = true;
                boolean isFoundMaxCount = false;
                boolean isFoundUnitTime = false;
                All childAll = (All) co;
                List cd = childAll.getPolicyComponents();
                for (Iterator cdl = cd.iterator(); cdl.hasNext();) {
                    Object d = cdl.next();
                    if (d instanceof XmlPrimitiveAssertion) {
                        XmlPrimitiveAssertion adx =
                            (XmlPrimitiveAssertion) d;
                        OMElement el = adx.getValue();
                        // Name of the policy assertion
                        String n = el.getLocalName();
                        //Value of the policy assertion
                        String v = el.getText();

                        //if Value and Name are null,then it is a
                        // invalid policy config
                        if (n == null || v == null) {
                            handleException("Either Value or " +
                                "Name of the policy cannot be null");
                        }
                        if (!v.equals("")) {

                            if (n.equals(
                                ThrottleConstants.
                                    MAXIMUM_COUNT_PARAMETER_NAME)) {

                                isFoundMaxCount = true;

```

```

try {
    cn.setMaximumRequestPerUnitTime(
        Integer.parseInt(v.trim()));
} catch (NumberFormatException ignored) {
    log.error("Error occurred - " +
        "Invalid number for maximum " +
        "request number ", ignored);
    if (log.isDebugEnabled()) {
        log.debug("Access" +
            " will be fully allowed");
    }
    cn.setAccessState(
        ThrottleConstants.ACCESS_ALLOWED);
}
} else if (n.equals(
    ThrottleConstants.
        UNIT_TIME_PARAMETER_NAME)) {
//TODO need to verify that value is in milisecond
long timeInMiliSec = 0;
try {
    timeInMiliSec =
        Long.parseLong(v.trim());
} catch (NumberFormatException ignored) {
    log.error("Error occurred " +
        "- Invalid number for unit time",
        ignored);
}
if (timeInMiliSec == 0) {
    handleException("Unit Time cannot " +
        "find - invalid throttle " +
        "policy configuration");
}
isFoundUnitTime = true;
cn.setUnitTime(timeInMiliSec);

} else if (n.equals(
    ThrottleConstants.
        PROHIBIT_TIME_PERIOD_PARAMETER_NAME)) {
try {
    cn.setProhibitTimePeriod(
        Long.parseLong(v.trim()));
} catch (NumberFormatException ignored) {
    log.error("Error occurred - Invalid" +
        " number for prohibit time ",
        ignored);
}
} else {
    handleException("Undefined Policy" +

```

```

        " property for Throttle Policy");
    }
} else {
    if (!n.equals(
        ThrottleConstants.
            PROHIBIT_TIME_PERIOD_PARAMETER_NAME)) {
        handleException("The policy which have " +
            " defined as optional " +
            "should have value ");
    }
}
}
} else if (isFoundUnitTime && isFoundMaxCount) {
    isExactlyOneFound = true;
} else {
    handleException("Maximum Count and UnitTime are " +
        "Mandatory in Throttle Policy ");
}
} else if (co instanceof XmlPrimitiveAssertion) {
    haveSelectOneFromExactlyOne = true;
    XmlPrimitiveAssertion alx = (XmlPrimitiveAssertion) co;
    OMElement ele = alx.getValue();
    // Name of the policy assertion
    String n = ele.getLocalName();
    //Value of the policy assertion
    String v = ele.getText();

    //if Value and Name are null,
    // then it is a invalid policy config
    if (n == null || v == null) {
        handleException("Either Value or" +
            " Name of the policy cannot be null");
    } else if (n.equals(
        ThrottleConstants.ISALLOW_PARAMETER_NAME)) {
        if (v.equals(Boolean.toString(true))) {
            isExactlyOneFound = true;
            cn.setAccessState(
                ThrottleConstants.ACCESS_ALLOWED);
        } else if (v.equals(Boolean.toString(false))) {
            isExactlyOneFound = true;
            cn.setAccessState(
                ThrottleConstants.ACCESS_DENIED);
        } else {
            handleException("Value for isAllow " +
                " component is invalied");
        }
    }
}
}

```

```

        } else {
            handleException("Invalid Throttle" +
                " Policy configuration");
        }
    }
}

} else {
    if (log.isDebugEnabled()) {
        log.debug("Couldn't find a cn for a throttle configuration" +
            " for an one caller ");
    }
}

if (isIPRangeFound && isExactlyOneFound) {
    // If the Throttle Configuration is valid
    tc.addCallerConfiguration(cn);
} else {
    handleException("ID and one of Valid Control policy component are " +
        "Mandatory in Throttle Policy");
}
} else if (tp instanceof XmlPrimitiveAssertion) {

    XmlPrimitiveAssertion mca = (XmlPrimitiveAssertion) tp;
    OMElement ele = mca.getValue();
    // Name of the policy assertion
    String n = ele.getLocalName();
    //Value of the policy assertion
    String v = ele.getText();

    //if Value and Name are null,then
    // it is a invalid policy configuration
    if (n == null || v == null) {
        handleException("Either Value or Name of the policy cannot be null");
    } else if (n.equals(
        ThrottleConstants.MAXIMUM_CONCURRENT_ACCESS_PARAMETER_NAME)) {
        int intvalue = 0;
        try {
            intvalue = Integer.parseInt(v.trim());
        } catch (NumberFormatException ignored) {
            log.error("Error occurred - Invalid number for maximum " +
                "concurrent access ", ignored);
        }
        if (intvalue > 0) {
            th.setConcurrentAccessController(
                new ConcurrentAccessController(intvalue));
        }
    } else {

```



```

        handleException("Invalid Throttle Policy configuration");
    }
}

}
return th;
}

/**
 * Helper method to handle exception
 *
 * @param message Debug message
 * @throws ThrottleException
 */
private static void handleException(String message) throws ThrottleException {
    String msg = "Error was occurred during throttle policy processing " + message;
    log.error(msg);
    throw new ThrottleException(msg);
}
}

```

1.875 org.wso2.carbon.throttle.stub 4.2.0

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1.876 org.wso2.carbon.throttle.ui 4.2.0

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*/
-->

```

```

<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="org.wso2.carbon.throttle.stub.types.ThrottlePolicy" %>
<% @ page import="org.wso2.carbon.throttle.stub.types.InternalData" %>
<% @ page import="org.wso2.carbon.throttle.ui.client.ThrottleClient" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>
<% @ page import="java.util.ResourceBundle" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIMessage" %>
<% @ page import="java.util.Map" %>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>

```

```

<%
// Set standard HTTP/1.1 no-cache headers.
response.setHeader("Cache-Control", "no-store, max-age=0, no-cache, must-revalidate");
// Set IE extended HTTP/1.1 no-cache headers.
response.addHeader("Cache-Control", "post-check=0, pre-check=0");
// Set standard HTTP/1.0 no-cache header.
response.setHeader("Pragma", "no-cache");

```

```

boolean popup = false;
if ("true".equals(request.getParameter("popup"))) {
    popup = true;
}

```

```

String policyID = request.getParameter("policyID");
Map policyXMLMap = (Map) request.getSession().getAttribute("throttle_policy_map");
String policyXML = "";
if (policyXMLMap != null) {
    policyXML = (String) policyXMLMap.get(policyID);
    if (policyXML == null) {
        policyXML = "";
    }
}

```

```

String param = "policyID=" + policyID;

```

```

if (popup) {
    param = param + "&popup=true";
}

if (request.getParameter("backURL") != null) {
    session.setAttribute("backURL", request.getParameter("backURL"));
}

String BUNDLE = "org.wso2.carbon.throttle.ui.i18n.Resources";
ResourceBundle bundle = ResourceBundle.getBundle(BUNDLE, request.getLocale());
String header = bundle.getString("throttling.configuration.mediator");

//Obtaining the client-side ConfigurationContext instance.
ConfigurationContext configContext = (ConfigurationContext) config.getServletContext()
    .getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);

//Server URL which is defined in the server.xml
String serverBackendURL = CarbonUIUtil.getServerURL(config.getServletContext(),
    session);

String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);

ThrottlePolicy policy;

try {
    ThrottleClient client = new ThrottleClient(cookie,
        serverBackendURL, configContext, request.getLocale());
    policy = client.toThrottlePolicy(policyXML, request.getParameter("loadDefault"));

} catch (Exception e) {
    %>
<script type="text/javascript">
    CARBON.showWarningDialog("<%=e.getMessage()%>");
</script>
<%
    return;
}

String maxAccesses = "";
if (policy.getMaxConcurrentAccesses() != 0) {
    maxAccesses = String.valueOf(policy.getMaxConcurrentAccesses());
}

String htmlString = "";
String disableFields;
int newRows = 0;

//If the incoming internal configs are not empty, load them

```

```

if (policy.getMaxConcurrentAccesses() != 0 ||
    policy.getInternalConfigs() != null && policy.getInternalConfigs()[0] != null) {

    InternalData[] data = policy.getInternalConfigs();
    if (data != null) {
        newRows = data.length;

        String opt1, opt2, opt3, opt4, opt5;
        int f2, f3, f4;
        for (int i = 0; i < data.length; i++) {
            opt1 = "IP";
            opt2 = "DOMAIN";
            opt3 = "Control";
            opt4 = "Deny";
            opt5 = "Allow";
            disableFields = "";
            if (data[i] != null) {
                if (data[i].getAccessLevel() == 1) {
                    opt3 = "Deny";
                    opt4 = "Control";
                    disableFields = "disabled='true'";
                } else if (data[i].getAccessLevel() == 2) {
                    opt3 = "Allow";
                    opt5 = "Control";
                    disableFields = "disabled='true'";
                }
                if (data[i].getRangeType().equals("DOMAIN")) {
                    opt1 = "DOMAIN";
                    opt2 = "IP";
                }
                f2 = data[i].getMaxRequestCount();
                f3 = data[i].getUnitTime();
                f4 = data[i].getProhibitTimePeriod();
                htmlString += "<tr>\n" +
                    "    <td><input name=\"data\" + (i + 1) + \"1\" type=\"text\" \" +
                    \"size=\"15\" value=\"\" + data[i].getRange() + \"\"/></td>\n" +
                    "    <td><select name=\"data\" + (i + 1) + \"6\">\n" +
                    "        <option value=\"\" + opt1 + \"\"> + bundle.getString(opt1) + </option>\n" +
                    "        <option value=\"\" + opt2 + \"\"> + bundle.getString(opt2) + </option>\n" +
                    "    </select></td>\n" +
                    "    <td><input size=\"13\" name=\"data\" + (i + 1) + \"2\" \" + disableFields + \" type=\"text\" \" +
                    \"value=\"\" + ((f2 == 0) ? \"\" : f2) + \"\"/></td>\n" +
                    "    <td><input size=\"13\" name=\"data\" + (i + 1) + \"3\" \" + disableFields + \" type=\"text\" \" +
                    \"value=\"\" + ((f3 == 0) ? \"\" : f3) + \"\"/></td>\n" +
                    "    <td><input size=\"14\" name=\"data\" + (i + 1) + \"4\" \" + disableFields + \" type=\"text\" \" +
                    \"value=\"\" + ((f4 == 0) ? \"\" : f4) + \"\"/></td>\n" +
                    "    <td><select onchange=\"checkForAllow(this);\" name=\"data\" + (i + 1) + \"5\">\n" +
                    "        <option value=\"\" + opt3 + \"\"> + bundle.getString(opt3) + </option>\n" +

```



```

        <option value=\"\" + opt4 + "\">\" + bundle.getString(opt4) + "</option>\n" +
        <option value=\"\" + opt5 + "\">\" + bundle.getString(opt5) + "</option>\n" +
        </select></td>\n" +
        <td><a href=\"#\" class=\"delete-icon-link\" onclick=\"removeRow(this);\" title=\"\" +
bundle.getString("throttling.delete.this.row") + "\">\" + bundle.getString("throttling.delete") + "</a></td>\n" +
        </tr>\n";
    } else {
        newRows--;
    }
}
}
}
%>

```

```
<fmt:bundle basename="org.wso2.carbon.throttle.ui.i18n.Resources">
```

```
<%
```

```
    if (!popup) {
```

```
%>
```

```
<carbon:breadcrumb
```

```
    label="throttling.breadcrumbtext"
```

```
    resourceBundle="org.wso2.carbon.throttle.ui.i18n.Resources"
```

```
    topPage="false"
```

```
    request="<%=request%>"/>
```

```
<%
```

```
    }
```

```
%>
```

```
<script type="text/javascript">
```

```
//set number of rows of the table at the back end
```

```
var rows = <%= newRows%>;
```

```
//Reset the names of the elements according to the order when needed
```

```
function resetIds(rowNumber) {
```

```
    var i;
```

```
    var j;
```

```
    var temp;
```

```
    for (i = rowNumber; i < rows; i++) {
```

```
        for (j = 1; j < 7; j++) {
```

```
            temp = document.getElementsByName("data" + (i + 1) + "" + j);
```

```
            temp[0].name = "data" + i + "" + j;
```

```
        }
```

```
    }
```

```
}
```

```
//add a new row to the table
```

```
function addRow() {
```

```
    rows = rows + 1;
```

```

//add a row to the rows collection and get a reference to the newly added row
var newRow = document.getElementById("dataTable").insertRow(-1);

newRow.className = "even";

//add 6 cells (<th>) to the new row and set the innerHTML to contain text boxes
var oCell = newRow.insertCell(-1);
oCell.innerHTML = "<input type='text' name='data' + rows + "1' size='15'/>";

oCell = newRow.insertCell(-1);
oCell.innerHTML = "<select name='data' + rows + "6'>" +
    "<option value='IP'><fmt:message key='IP'></option>" +
    "<option value='DOMAIN'><fmt:message key='DOMAIN'></option></select>";

oCell = newRow.insertCell(-1);
oCell.innerHTML = "<input size='13' type='text' name='data' + rows + "2' disabled='true'/>";

oCell = newRow.insertCell(-1);
oCell.innerHTML = "<input size='13' type='text' name='data' + rows + "3' disabled='true'/>";

oCell = newRow.insertCell(-1);
oCell.innerHTML = "<input size='14' type='text' name='data' + rows + "4' disabled='true'/>";

oCell = newRow.insertCell(-1);
oCell.innerHTML = "<select onchange='\checkForAllow(this);\' name='data' + rows + "5'>" +
    "<option value='Allow'><fmt:message key='Allow'></option>" +
    "<option value='Deny'><fmt:message key='Deny'></option>" +
    "<option value='Control'><fmt:message key='Control'></option></select>";

oCell = newRow.insertCell(-1);
oCell.innerHTML = "<a href='#' class='delete-icon-link' onclick='removeRow(this);' title='<fmt:message
key='throttling.delete.this.row'>'><fmt:message key='throttling.delete'></a>";
}

//deletes the specified row from the table
function removeRow(src) {
    var oRow = src.parentNode.parentNode;
    var index = oRow.rowIndex;

    //once the row reference is obtained, delete it passing in its rowIndex
    document.getElementById("dataTable").deleteRow(oRow.rowIndex);

    //Reset the names as one row is deleted
    resetIds(index);
    rows = rows - 1;
}

```

```

function submitForm() {
    var i;
    var temp1, temp2, temp3;
    var rangeEmpty = false, controlError = false;
    for (i = 1; i < rows + 1; i++) {
        temp1 = document.getElementsByName("data" + i + "" + 1);
        if (temp1[0].value == "") {
            rangeEmpty = true;
            break;
        }
        temp1 = document.getElementsByName("data" + i + "" + 5);
        temp2 = document.getElementsByName("data" + i + "" + 2);
        temp3 = document.getElementsByName("data" + i + "" + 3);
        if (temp1[0].value == "Control" && (temp2[0].value == "" || temp3[0].value == "")) {
            controlError = true;
            break;
        }
    }
    if (rows == 0 && document.getElementById("maxAccess").value == "") {
        CARBON.showErrorDialog("<fmt:message key='throttling.no.config'/>");
    } else if (rangeEmpty) {
        CARBON.showErrorDialog("<fmt:message key='throttling.range.empty'/>");
    } else if (controlError) {
        CARBON.showErrorDialog("<fmt:message key='throttling.no.max.req.count'/>");
    } else {
        var referenceString = collectionFormData();
        var url = "../throttling/trottle-policy-update_ajaxprocessor.jsp?enable=Yes&<%= param%>" + referenceString;
        jQuery.post(url, ({}),
            function(data, status) {
                if (status != "success") {
                    CARBON.showWarningDialog("Error Occurred!");
                }
            });
    }
    hideEditor();
    return false;
}

//clear all the field on the UI
function clearAll() {
    document.getElementById("maxAccess").value = "";

    var i;
    var j;
    var temp;
    for (i = 1; i < rows + 1; i++) {
        for (j = 1; j < 7; j++) {
            temp = document.getElementsByName("data" + i + "" + j);

```

```

        if (j == 5) {
            temp[0].value = "Allow";
        } else if (j == 6) {
            temp[0].value = "IP";
        } else {
            temp[0].value = "";
        }
    }
}
}

function collectionFormData() {

    var parameterString = "";

    var maxConAccess = document.getElementById("maxAccess").value
    if (maxConAccess && maxConAccess != "") {
        parameterString = "&maxAccess=" + maxConAccess;
    }
    var i;
    var j;
    for (i = 1; i < rows + 1; i++) {
        for (j = 1; j < 7; j++) {
            var dataID = "data" + i + "" + j;
            var temp = document.getElementsByName(dataID);
            if (temp != null && temp != undefined && temp.length >= 1) {
                var dataValue = temp[0].value ;
                if (dataValue != null && dataValue != undefined && dataValue != "") {
                    parameterString += "&" + dataID + "=" + dataValue;
                }
            }
        }
    }
    return parameterString;
}

```

```

function checkForAllow(element) {
    var elName = element.name;
    var row = elName.substring(4, 5);
    var i;
    var temp;
    for (i = 2; i < 5; i++) {
        temp = document.getElementsByName("data" + row + "" + i);
        if (element.value == "Allow" || element.value == "Deny") {
            temp[0].disabled = true;
        } else {
            temp[0].disabled = false;
        }
    }
}

```

```

    }
}

function resetForm() {
    var url = "../throttling/trottle-policy-editor_ajaxprocessor.jsp?<%= param%>";
    jQuery("#popupContent").load(url, null,
        function(res, status, t) {
            if (status != "success") {
                CARBON.showWarningDialog("Error Occurred!");
            }
        });
    return false;
}

function loadDefault() {
    var url = "../throttling/trottle-policy-editor_ajaxprocessor.jsp?loadDefault=true&<%= param%>";
    jQuery("#popupContent").load(url, null,
        function(res, status, t) {
            if (status != "success") {
                CARBON.showWarningDialog("Error Occurred!");
            }
        });
    return false;
}

function hideEditor() {
    CARBON.closeWindow();
    return false;
}

</script>

<div id="middle">
    <h2><%= header%>
</h2>

    <div id="workArea">

        <div id="formset">
            <form id="form3" name="dataForm" method="post" action="">
                <div id="policyConfiguration">
                    <table class="styledLeft">
                        <tr>
                            <td class="formRow">
                                <table width="100%" border="0" cellpadding="0" cellspacing="0" class="normal">
                                    <tr>
                                        <td nowrap="nowrap"><fmt:message
key="thottling.maximum.concurrent.accesses"/>&nbsp;<input

```

```

        id="maxAccess" name="maxAccess" type="text" size="14"
        value="<%=maxAccesses%>"/></td>
    </tr>

</table>
<br/>
<table class="styledLeft" id="dataTable">
    <thead>
        <tr>
            <th><fmt:message key="throttling.range"/></th>
            <th><fmt:message key="throttling.type"/></th>
            <th><fmt:message key="throttling.max.request.count"/></th>
            <th><fmt:message key="throttling.unit.time.ms"/></th>
            <th><fmt:message key="throttling.prohibit.time.period.ms"/></th>
            <th><fmt:message key="throttling.access"/></th>
            <th><fmt:message key="throttling.actions"/></th>
        </tr>
    </thead>
    <%= htmlString%>
</table>
<a href="#" onclick="addRow();" class="add-icon-link"><fmt:message
    key="throttling.add.new.entry"/></a>
</td>
</tr>
<tr>
<td class="buttonRow">
    <input type="button" value="<fmt:message key="throttling.finish"/>"
        onclick="submitForm();" class="button"/>
    <input type="button" value="<fmt:message key="throttling.reset"/>"
        onclick="resetForm();" class="button"/>
    <input type="button" value="<fmt:message key="throttling.default"/>"
        onclick="loadDefault();" class="button"/>
    <input type="button" value="<fmt:message key="throttling.clear"/>" onclick="clearAll();"
        class="button"/>
    <input type="button" id="cancelButton" onclick="hideEditor();return false;"
        value="<fmt:message key="throttling.cancel" />" class="button"/>
</td>
</tr>
</table>
</div>
</form>

</div>
</div>
</div>
</fmt:bundle>
<!--
/*

```

```

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-->

```

```

<% @ page import="org.apache.axis2.context.ConfigurationContext" %>
<% @ page import="org.wso2.carbon.CarbonConstants" %>
<% @ page import="org.wso2.carbon.ui.CarbonUIUtil" %>
<% @ page import="org.wso2.carbon.throttle.ui.client.ThrottleClient" %>
<% @ page import="org.wso2.carbon.utils.ServerConstants" %>

<%
    //Obtaining the client-side ConfigurationContext instance.
    ConfigurationContext configContext = (ConfigurationContext) config.getServletContext()
        .getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);

    //Server URL which is defined in the server.xml
    String serverBackendURL = CarbonUIUtil.getServerURL(config.getServletContext(),
        session);

    String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);

    try {
        ThrottleClient client = new ThrottleClient(cookie,
            serverBackendURL, configContext, request.getLocale());
        client.updateBackEnd(request);
    } catch (Exception e) {
    }
%>

```

1.877 org.wso2.carbon.throttling.agent 2.2.0

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*/

```

```
package org.wso2.carbon.throttling.agent.cache;
```

```
import org.apache.axis2.context.ConfigurationContext;
import org.wso2.carbon.utils.AbstractAxis2ConfigurationContextObserver;
import org.wso2.carbon.utils.multitenancy.MultitenantUtils;
```

```
/**
 * Axis configuration context observer which add and remove lazy loaded/unloaded tenants to throttling information
 * cache.
 */
```

```
public class Axis2ConfigurationContextObserverImpl extends AbstractAxis2ConfigurationContextObserver{
```

```
    private ThrottlingInfoCache throttlingInfoCache;
```

```
    public Axis2ConfigurationContextObserverImpl(ThrottlingInfoCache throttlingInfoCache){
        this.throttlingInfoCache = throttlingInfoCache;
    }
```

```
    public void createdConfigurationContext(ConfigurationContext configContext) {
        throttlingInfoCache.addTenant(MultitenantUtils.getTenantId(configContext));
    }
```

```
    public void terminatedConfigurationContext(ConfigurationContext configCtx) {
        throttlingInfoCache.deleteTenant(MultitenantUtils.getTenantId(configCtx));
    }
}
```

1.878 org.wso2.carbon.throttling.agent.stub

4.2.0

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1.879 org.wso2.carbon.tomcat 4.2.0

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1.880 org.wso2.carbon.tomcat.ext 4.2.0

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```

package org.wso2.carbon.tomcat.ext.valves;

import org.apache.axis2.clustering.ClusteringFault;
import org.apache.catalina.Context;
import org.apache.catalina.Manager;
import org.apache.catalina.Session;
import org.apache.catalina.connector.Request;
import org.apache.catalina.connector.Response;
import org.apache.catalina.ha.ClusterManager;
import org.apache.catalina.valves.ValveBase;
import org.wso2.carbon.core.session.CarbonTomcatClusterableSessionManager;

import javax.servlet.ServletException;
import java.io.IOException;

public class CarbonTomcatSessionReplicationValve extends ValveBase {
    @Override
    public void invoke(Request request, Response response) throws IOException, ServletException {
        try {
            getNext().invoke(request, response);

        } finally {
            // Call the session manager and replicate sessions
            sendSessionReplicationMessage(request);
        }
    }

    private void sendSessionReplicationMessage(Request request) throws ClusteringFault {
        Context context = request.getContext();
        Session session = request.getSessionInternal(false);
        Manager manager = context.getManager();
        if (manager != null && manager instanceof ClusterManager) {
            CarbonTomcatClusterableSessionManager sessionManager =
                (CarbonTomcatClusterableSessionManager) manager;
            if (session != null) {
                sessionManager.replicateSessions(session);
            }
        }
    }
}

```

1.881

org.wso2.carbon.tomcat.fragment.dummy

4.2.0

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1.882 org.wso2.carbon.tomcat.patch 4.2.0

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1.887 org.wso2.carbon.tracer.ui 4.2.0

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1.905 org.wso2.carbon.ui.menu.registry 4.2.0

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1.906 org.wso2.carbon.ui.menu.stratos 2.2.0

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1.909 org.wso2.carbon.usage.agent 2.2.0

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1.910 org.wso2.carbon.user.api 4.2.0

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 */
package org.wso2.carbon.user.api;
```

```
public class Permission {

    /**
     * The resource Id string
     */
    private String resourceId;

    /**
     * The action string
     */
    private String action;

    public Permission(String resourceId, String action) {
        this.resourceId = resourceId;
        this.action = action;
    }

    public String getResourceId() {
        return resourceId;
    }

    public String getAction() {
```



```

        return action;
    }

    public void setResourceId(String resourceId) {
        this.resourceId = resourceId;
    }

    public void setAction(String action) {
        this.action = action;
    }
}

```

1.911 org.wso2.carbon.user.core 4.2.0

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```

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package org.wso2.carbon.user.core;

public class Permission extends org.wso2.carbon.user.api.Permission {
    public Permission(String resourceId, String action) {
        super(resourceId, action);
    }
}
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*/
package org.wso2.carbon.user.core.jdbc;

```

```

import org.apache.commons.dbcp.BasicDataSource;
import org.wso2.carbon.user.api.RealmConfiguration;
import org.wso2.carbon.user.core.AuthorizationManager;
import org.wso2.carbon.user.core.BaseTestCase;
import org.wso2.carbon.user.core.ClaimTestUtil;
import org.wso2.carbon.user.core.UserCoreTestConstants;
import org.wso2.carbon.user.core.UserRealm;
import org.wso2.carbon.user.core.UserStoreManager;
import org.wso2.carbon.user.core.common.DefaultRealm;
import org.wso2.carbon.user.core.config.TestRealmConfigBuilder;
import org.wso2.carbon.user.core.util.DatabaseUtil;
import org.wso2.carbon.utils.dbcreator.DatabaseCreator;

```

```

import java.io.File;
import java.io.InputStream;

```

```

public class PermissionTest extends BaseTestCase {

    private UserRealm realm;

    private static String TEST_URL = "jdbc:h2:target/PermissionTest/CARBON_TEST";

    private static final String EVERYONE_ROLE = "Internal/everyone";

    public void setUp() throws Exception {
        super.setUp();
    }

    public void testStuff() throws Exception {
        DatabaseUtil.closeDatabasePoolConnection();
        initRealmStuff();
        checkPermission();
    }

    public void initRealmStuff() throws Exception {
        String dbFolder = "target/PermissionTest";

```

```

if ((new File(dbFolder)).exists()) {
    deleteDir(new File(dbFolder));
}

BasicDataSource ds = new BasicDataSource();
// ds.setDriverClassName("org.apache.derby.jdbc.EmbeddedDriver");
// ds.setUrl("jdbc:derby:target/databasetest/CARBON_TEST;create=true");

ds.setDriverClassName(UserCoreTestConstants.DB_DRIVER);
ds.setUrl(TEST_URL);
DatabaseCreator creator = new DatabaseCreator(ds);
creator.createRegistryDatabase();

realm = new DefaultRealm();

InputStream inStream = this.getClass().getClassLoader().getResource(
    JDBCRealmTest.JDBC_TEST_USERMGT_XML).openStream();
RealmConfiguration realmConfig = TestRealmConfigBuilder
    .buildRealmConfigWithJDBCConnectionUrl(inStream, TEST_URL);
realm.init(realmConfig, ClaimTestUtil.getClaimTestData(), ClaimTestUtil
    .getProfileTestData(), 0);
}

public void checkPermission() throws Exception {
    UserStoreManager usManager = realm.getUserStoreManager();
    usManager.addRole("role1", null, null);
    usManager.addUser("user1", "pass1", new String[] { "role1" }, null, null, false);

    AuthorizationManager authManager = realm.getAuthorizationManager();
    authManager.authorizeUser("dish", "/r1/", "read");
    authManager.denyUser("dish", "/r1/r2", "read");
    assertFalse(authManager.isUserAuthorized("dish", "/x1/x2", "read"));

    authManager.authorizeRole("role1", "/x1", "read");
    authManager.denyRole("role1", "/x1/x2", "read");
    assertFalse(authManager.isRoleAuthorized("role1", "/x1/x2", "read"));

    authManager.authorizeUser("user1", "/x1/x2", "read");

    assertTrue(authManager.isRoleAuthorized("role1", "/x1", "read"));
    usManager.updateRoleName("role1", "role2");
    assertTrue(authManager.isRoleAuthorized("role2", "/x1", "read"));
    assertFalse(authManager.isRoleAuthorized("role1", "/x1", "read"));

    assertTrue(authManager.isUserAuthorized("user1", "/x1/x2", "read"));
    assertTrue(authManager.isUserAuthorized("user1", "/x1", "read"));

    usManager.addRole("bizdevrole", null, null);

```

```

usManager.addUser("bizuser", "pass2", new String[] { "bizdevrole", EVERYONE_ROLE}, null, null, false);

authManager.authorizeRole(EVERYONE_ROLE, "/", "read");
authManager.denyRole(EVERYONE_ROLE, "/wso2/bizzness", "read");
authManager.authorizeRole("bizdevrole", "/wso2/bizzness", "read");
assertTrue(authManager.isUserAuthorized("bizuser", "/wso2/bizzness", "read"));
}

public void checkRepeatingPermission() throws Exception {
    AuthorizationManager authManager = realm.getAuthorizationManager();
    UserStoreManager usAdmin = realm.getUserStoreManager();
    //usAdmin.addRole("everyone", null, null);
    usAdmin.addUser("sameera", "password", new String[] { EVERYONE_ROLE, "bizzrole" }, null, null, false);
    usAdmin.addUser("dimuthug", "password", new String[] { EVERYONE_ROLE }, null, null, false);

    authManager.authorizeRole(EVERYONE_ROLE, "/", "read");
    authManager.authorizeRole(EVERYONE_ROLE, "/top", "read");
    //authManager.authorizeRole("everyone", "/top/wso2", "read");
    authManager.denyRole(EVERYONE_ROLE, "/top/wso2/bizzness", "read");
    authManager.authorizeRole("bizzrole", "/top/wso2/bizzness", "read");

    assertEquals(1, authManager.getAllowedRolesForResource("/top/wso2/bizzness", "read").length);
    assertEquals(1, authManager.getDeniedRolesForResource("/top/wso2/bizzness", "read").length);
    assertFalse(authManager.isRoleAuthorized(EVERYONE_ROLE, "/top/wso2/bizzness", "read"));
    assertFalse(authManager.isUserAuthorized("dimuthu", "/top/wso2/bizzness", "read"));
}

}
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 */
package org.wso2.carbon.user.core.authman;

```

```

import org.apache.commons.dbcp.BasicDataSource;
import org.wso2.carbon.user.api.RealmConfiguration;
import org.wso2.carbon.user.core.AuthorizationManager;
import org.wso2.carbon.user.core.BaseTestCase;
import org.wso2.carbon.user.core.ClaimTestUtil;
import org.wso2.carbon.user.core.Permission;
import org.wso2.carbon.user.core.UserCoreTestConstants;
import org.wso2.carbon.user.core.UserRealm;
import org.wso2.carbon.user.core.UserStoreManager;
import org.wso2.carbon.user.core.common.DefaultRealm;
import org.wso2.carbon.user.core.config.TestRealmConfigBuilder;
import org.wso2.carbon.user.core.jdbc.JDBCRealmTest;
import org.wso2.carbon.user.core.util.DatabaseUtil;
import org.wso2.carbon.utils.dbcreator.DatabaseCreator;

import java.io.File;
import java.io.InputStream;
import java.util.HashMap;
import java.util.Map;

public class AdvancedPermissionTreeTest extends BaseTestCase{
    private UserRealm realm = null;
    private String TEST_URL = "jdbc:h2:target/permTreetest/CARBON_TEST";

    public void setUp() throws Exception {
        super.setUp();
    }

    public void testStuff() throws Exception{
        DatabaseUtil.closeDatabasePoolConnection();
        initRealmStuff();
        doRolestuff();
        doAuthorizationstuff();
    }

    public void initRealmStuff() throws Exception{
        String dbFolder = "target/permTreetest";
        if ((new File(dbFolder)).exists()) {
            deleteDir(new File(dbFolder));
        }

        BasicDataSource ds = new BasicDataSource();
        ds.setDriverClassName(UserCoreTestConstants.DB_DRIVER);
        ds.setUrl(TEST_URL);

        DatabaseCreator creator = new DatabaseCreator(ds);
        creator.createRegistryDatabase();

```

```

    realm = new DefaultRealm();
    InputStream inStream =
this.getClass().getClassLoader().getResource(JDBCRealmTest.JDBC_TEST_USERMGT_XML).openStream();
    RealmConfiguration realmConfig = TestRealmConfigBuilder
        .buildRealmConfigWithJDBCConnectionUrl(inStream, TEST_URL);
    realm.init(realmConfig, ClaimTestUtil.getClaimTestData(), ClaimTestUtil
        .getProfileTestData(),0);
}

```

```

public void dorolestuff() throws Exception{
    UserStoreManager admin = realm.getUserStoreManager();
    Map<String, String> getClaims = new HashMap<String, String>();
    getClaims.put(ClaimTestUtil.CLAIM_URI1, "1claim1Value");
    getClaims.put(ClaimTestUtil.CLAIM_URI2, "2claim2Value");

    Permission[] permissions = new Permission[2];
    permissions[0] = new Permission("high security", "read");
    permissions[1] = new Permission("low security", "write");
    assertEquals("high security",permissions[0].getResourceId());
    assertEquals("write",permissions[1].getAction());

    admin.addUser("dimuthu", "pass1", null, null, null, false);
    admin.addUser("isuru","pass2",null,null,null, false);
    admin.addUser("ajith","pass3",null,null,null, false);
    admin.addUser("Kalpa","pass4",null,null,null, false);
    admin.addUser("Lahiru","pass5",null,null,null, false);

    admin.addRole("role1", new String[] { "dimuthu" }, permissions);
    admin.addRole("role2", new String[] { "isuru","ajith" }, permissions);
    admin.addRole("role3", new String[] { "Kalpa" }, permissions);
    admin.addRole("role4", new String[] { "Lahiru" }, permissions);
}

```

```

public void doAuthorizationstuff() throws Exception{

    AuthorizationManager authMan = realm.getAuthorizationManager();

    //Role Authorization
    authMan.authorizeRole("role1", "/s", "read");
    assertTrue(authMan.isRoleAuthorized("role1", "/s", "read"));
    assertTrue(authMan.isRoleAuthorized("role1", "/s/t/u/v", "read"));
    assertTrue(authMan.isUserAuthorized("dimuthu", "/s", "read"));
    assertTrue(authMan.isUserAuthorized("dimuthu", "/s/t/u/v", "read"));

    authMan.denyRole("role1", "/s/t/u", "read");
    assertFalse(authMan.isRoleAuthorized("role1", "/s/t/u", "read"));
    assertFalse(authMan.isRoleAuthorized("role1", "s/t/u/v/w", "read"));
}

```

```

assertFalse(authMan.isUserAuthorized("dimuthu","s/t/u/v/w", "read"));
assertTrue(authMan.isRoleAuthorized("role1", "/s/t", "read"));
assertTrue(authMan.isUserAuthorized("dimuthu","/s/t", "read"));

authMan.authorizeRole("role1", "/s/t/u/v/w/x", "read");
assertTrue(authMan.isRoleAuthorized("role1", "/s/t/u/v/w/x/y", "read"));
assertTrue(authMan.isRoleAuthorized("role1", "/s/t", "read"));
assertFalse(authMan.isRoleAuthorized("role1", "/s/t/u/v/w", "read"));

}
}
package org.wso2.carbon.user.core.authorization;

import java.io.Serializable;

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 */

//TODO create base cache entry class
public class PermissionTreeCacheEntry implements Serializable {

    private static final long serialVersionUID = 3730841109352949847L;
    private int treeHash;

    public PermissionTreeCacheEntry(int treeHash) {
        this.treeHash = treeHash;
    }

    public int getPermissionTreeCacheEntry() {
        return treeHash;
    }
}

```

```

}
/*
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 */
package org.wso2.carbon.user.core.authorization;

```

```

import java.util.ArrayList;
import java.util.List;

```

```

public class PermissionTreeUtil {

```

```

    /**

```

```

     * @param path

```

```

     * @return

```

```

    */

```

```

    public static void main(String[] args) {
        List<String> lst = PermissionTreeUtil.toComponenets("/");
        System.out.println(lst.size());
        System.out.println(lst.get(0));
    }

```

```

    public static List<String> toComponenets(String path) {
        String[] results = path.split("/");
        List<String> resultArr = new ArrayList<String>();
        int start = 0;
        //Removing the empty strings at start, but split javadoc
        //says it removes empty spaces
        if (results.length > 0 && results[0].length() == 0) {
            start = 1;
        }
        for (int i = start; i < results.length; i++) {
            resultArr.add(results[i]);
        }
    }

```



```

return resultArr;
}

public static TreeNode.Permission actionToPermission(String action) {
    if ("add".equalsIgnoreCase(action)) {
        return TreeNode.Permission.ADD;
    } else if ("get".equalsIgnoreCase(action)) {
        return TreeNode.Permission.GET;
    } else if ("delete".equalsIgnoreCase(action)) {
        return TreeNode.Permission.DELETE;
    } else if ("write".equalsIgnoreCase(action)) {
        return TreeNode.Permission.ADD;
    } else if ("read".equalsIgnoreCase(action)) {
        return TreeNode.Permission.GET;
    } else if ("edit".equalsIgnoreCase(action)) {
        return TreeNode.Permission.EDIT;
    } else if ("login".equalsIgnoreCase(action)) {
        return TreeNode.Permission.LOGIN;
    } else if ("manage-configuration".equalsIgnoreCase(action)) {
        return TreeNode.Permission.MAN_CONFIG;
    } else if ("manage-lc-configuration".equalsIgnoreCase(action)) {
        return TreeNode.Permission.MAN_LC_CONFIG;
    } else if ("manage-security".equalsIgnoreCase(action)) {
        return TreeNode.Permission.MAN_SEC;
    } else if ("upload-services".equalsIgnoreCase(action)) {
        return TreeNode.Permission.UP_SERV;
    } else if ("manage-services".equalsIgnoreCase(action)) {
        return TreeNode.Permission.MAN_SERV;
    } else if ("manage-mediation".equalsIgnoreCase(action)) {
        return TreeNode.Permission.MAN_MEDIA;
    } else if ("monitor-system".equalsIgnoreCase(action)) {
        return TreeNode.Permission.MON_SYS;
    } else if ("http://www.wso2.org/projects/registry/actions/get".equalsIgnoreCase(action)) {
        return TreeNode.Permission.GET;
    } else if ("http://www.wso2.org/projects/registry/actions/add".equalsIgnoreCase(action)) {
        return TreeNode.Permission.ADD;
    } else if ("http://www.wso2.org/projects/registry/actions/delete".equalsIgnoreCase(action)) {
        return TreeNode.Permission.DELETE;
    } else if ("authorize".equalsIgnoreCase(action)) {
        return TreeNode.Permission.AUTHORIZE;
    } else if ("delegate-identity".equalsIgnoreCase(action)) {
        return TreeNode.Permission.DEL_ID;
    } else if ("invoke-service".equalsIgnoreCase(action)) {
        return TreeNode.Permission.INV_SER;
    } else if ("ui.execute".equalsIgnoreCase(action)) {
        return TreeNode.Permission.UI_EXECUTE;
    } else if ("subscribe".equalsIgnoreCase(action)) {
        return TreeNode.Permission.SUBSCRIBE;
    }
}

```

```

    } else if ("publish".equalsIgnoreCase(action)) {
        return TreeNode.Permission.PUBLISH;
    } else if ("browse".equalsIgnoreCase(action)) {
        return TreeNode.Permission.BROWSE;
    } else if ("consume".equalsIgnoreCase(action)) {
        return TreeNode.Permission.CONSUME;
    } else if ("changePermission".equalsIgnoreCase(action)) {
        return TreeNode.Permission.CHANGE_PERMISSION;
    } else if ("SendMessage".equalsIgnoreCase(action)) {
        return TreeNode.Permission.SQS_SEND_MESSAGE;
    } else if ("ReceiveMessage".equalsIgnoreCase(action)) {
        return TreeNode.Permission.SQS_RECEIVE_MESSAGE;
    } else if ("DeleteMessage".equalsIgnoreCase(action)) {
        return TreeNode.Permission.SQS_DELETE_MESSAGE;
    } else if ("ChangeMessageVisibility".equalsIgnoreCase(action)) {
        return TreeNode.Permission.SQS_CHANGE_MESSAGE_VISIBILITY;
    } else if ("GetQueueAttributes".equalsIgnoreCase(action)) {
        return TreeNode.Permission.SQS_GET_QUEUE_ATTRIBUTES;
    }
}

    throw new IllegalArgumentException("Invalid action : " + action);
}

}

package org.wso2.carbon.user.core.authorization;

import java.io.Serializable;
/*
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 * limitations under the License.
 */

// TODO create base cache key class
public class PermissionTreeCacheKey implements Serializable {

```

```

private int cacheKeyId;

private String serverId;

private static final long serialVersionUID = 1281400603190208429L;

public PermissionTreeCacheKey(String serverId, int cacheKeyId) {
    this.cacheKeyId = cacheKeyId;
    this.serverId = serverId;
}

public int getCacheKeyId() {
    return cacheKeyId;
}

public String getServerId() {
    return serverId;
}

@Override
public boolean equals(Object otherObject) {

    if (!(otherObject instanceof PermissionTreeCacheKey)) {
        return false;
    }
    PermissionTreeCacheKey secondKey = (PermissionTreeCacheKey)otherObject;
    if(this.serverId != null){
        return this.cacheKeyId == secondKey.getCacheKeyId() &&
            this.serverId.equals(secondKey.getServerId());
    } else {
        return this.getCacheKeyId() == secondKey.getCacheKeyId();
    }
}

@Override
public int hashCode() {

    if(serverId != null){
        return this.cacheKeyId + this.serverId.hashCode() * 7 ;
    } else {
        return this.cacheKeyId;
    }
}
}
/*
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```

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- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

```
package org.wso2.carbon.user.core.authorization;
```

```
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.BitSet;
import java.util.List;
import java.util.Map;
import java.util.concurrent.locks.Lock;
import java.util.concurrent.locks.ReadWriteLock;
import java.util.concurrent.locks.ReentrantReadWriteLock;
```

```
import javax.cache.Cache;
import javax.cache.CacheManager;
import javax.cache.Caching;
import javax.sql.DataSource;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.CarbonConstants;
import org.wso2.carbon.registry.api.GhostResource;
import org.wso2.carbon.user.core.UserCoreConstants;
import org.wso2.carbon.user.core.UserStoreException;
import org.wso2.carbon.user.core.util.DatabaseUtil;
import org.wso2.carbon.user.core.util.UserCoreUtil;
```

```
public class PermissionTree {
```

```
    private static Log log = LogFactory.getLog(PermissionTree.class);
    protected TreeNode root;
    protected int tenantId;
    protected String cacheIdentifier;
    protected volatile int hashValueOfRootNode;
    protected DataSource dataSource;
```

```

private static final String PERMISSION_CACHE_MANAGER = "PERMISSION_CACHE_MANAGER";
private static final String PERMISSION_CACHE = "PERMISSION_CACHE";

private final ReadWriteLock readWriteLock = new ReentrantReadWriteLock();
private final Lock read = readWriteLock.readLock();
private final Lock write = readWriteLock.writeLock();

/**
 * On the server startup, all permissions are populated from the DB and the
 * permission tree is built in memory..
 *
 * @throws UserStoreException
 *         - SQL exceptions
 */

public PermissionTree(String cacheIdentifier, int tenantId, DataSource dataSource) {
    root = new TreeNode("");
    this.cacheIdentifier = cacheIdentifier;
    this.tenantId = tenantId;
    this.dataSource = dataSource;
}

/**
 * This private constructor will be used by the database loading code to
 * create a new copy of the permission node.
 */
private PermissionTree() {
    root = new TreeNode("");
}

/**
 * Getting existing cache if the cache available, else returns a newly created cache.
 * This logic handles by javax.cache implementation
 */
private Cache<PermissionTreeCacheKey, GhostResource<TreeNode>> getPermissionTreeCache() {
    Cache<PermissionTreeCacheKey, GhostResource<TreeNode>> cache = null;
    CacheManager cacheManager =
    Caching.getCacheManagerFactory().getCacheManager(PERMISSION_CACHE_MANAGER);
    cache = cacheManager.getCache(PERMISSION_CACHE);
    return cache;
}

void authorizeUserInTree(String userName, String resourceId, String action, boolean updateCache) throws
UserStoreException {
    write.lock();
    try {
        SearchResult sr = getNode(root, PermissionTreeUtil.toComponentnets(resourceId));
    }
}

```

```

if (sr.getUnprocessedPaths() != null) {
    List<String> paths = sr.getUnprocessedPaths();
    TreeNode tn = sr.getLastNode().create(paths);
    tn.authorizeUser(userName, PermissionTreeUtil.actionToPermission(action));

} else {
    sr.getLastNode().authorizeUser(userName,
        PermissionTreeUtil.actionToPermission(action));
}
if (updateCache) {
    invalidateCache(root);
}
} finally {
    write.unlock();
}
}

```

void denyUserInTree(String userName, String resourceId, String action, boolean updateCache) throws
UserStoreException {

```

write.lock();
try {
    SearchResult sr = getNode(root, PermissionTreeUtil.toComponentets(resourceId));
    if (sr.getUnprocessedPaths() != null) {
        List<String> paths = sr.getUnprocessedPaths();
        TreeNode tn = sr.getLastNode().create(paths);
        tn.denyUser(userName, PermissionTreeUtil.actionToPermission(action));
    } else {
        sr.getLastNode().denyUser(userName, PermissionTreeUtil.actionToPermission(action));
    }
    if (updateCache) {
        invalidateCache(root);
    }
} finally {
    write.unlock();
}
}

```

void authorizeRoleInTree(String roleName, String resourceId, String action, boolean updateCache) throws
UserStoreException {

```

write.lock();
try {
    SearchResult sr = getNode(root, PermissionTreeUtil.toComponentets(resourceId));
    if (sr.getUnprocessedPaths() != null) {
        List<String> paths = sr.getUnprocessedPaths();
        TreeNode tn = sr.getLastNode().create(paths);
        tn.authorizeRole(roleName, PermissionTreeUtil.actionToPermission(action));

    } else {

```

```

        sr.getLastNode().authorizeRole(roleName,
            PermissionTreeUtil.actionToPermission(action));
    }
    if (updateCache) {
        invalidateCache(root);
    }
} finally {
    write.unlock();
}
}
}

```

void denyRoleInTree(String roleName, String resourceId, String action, boolean updateCache) throws UserStoreException {

```

    write.lock();
    try {
        SearchResult sr = getNode(root, PermissionTreeUtil.toComponentes(resourceId));
        if (sr.getUnprocessedPaths() != null) {
            List<String> paths = sr.getUnprocessedPaths();
            TreeNode tn = sr.getLastNode().create(paths);
            tn.denyRole(roleName, PermissionTreeUtil.actionToPermission(action));

        } else {
            sr.getLastNode().denyRole(roleName, PermissionTreeUtil.actionToPermission(action));
        }
        if (updateCache) {
            invalidateCache(root);
        }
    } finally {
        write.unlock();
    }
}
}

```

```

/**
 * Find permission for given 'role' starting from the TreeNode 'node' and
 * using the path segments given in the List as pathParts
 *
 * @param role
 *         the role for which the permissions are searched
 * @param permission
 *         the permission checked
 * @param sr
 *         the SearchResult that merges the permissions as the tree is
 *         traversed
 * @param node
 *         the current node
 * @param pathParts
 *         the list of path segments to traverse
 * @return the final SearchResult that merges the permissions

```

```

*/
SearchResult getRolePermission(String role, TreeNode.Permission permission, SearchResult sr,
    TreeNode node, List<String> pathParts) {
    read.lock();
    try {
        if (node == null) {
            node = root;
        }

        if (sr == null) {
            sr = new SearchResult();
        }

        Boolean currentNodeAllows = node.isRoleAuthorized(role, permission);
        if (currentNodeAllows == Boolean.TRUE) {
            sr.setLastNodeAllowedAccess(Boolean.TRUE);
        } else if (currentNodeAllows == Boolean.FALSE) {
            sr.setLastNodeAllowedAccess(Boolean.FALSE);
        }

        if (pathParts == null || pathParts.isEmpty()) {
            sr.setLastNode(node);
            sr.setUnprocessedPaths(null);
            return sr;
        } else {

            String key = pathParts.get(0);
            if (key != null && key.length() > 0) {
                TreeNode child = node.getChild(key);
                if (child != null) {
                    pathParts.remove(0);
                    return getRolePermission(role, permission, sr, child, pathParts);
                }
            }
            sr.setLastNode(node);
            return sr;
        }
    } finally {
        read.unlock();
    }
}

/**
 * Find permission for given 'user' starting from the TreeNode 'node' and
 * using the path segments given in the List as pathParts
 *
 * @param user

```



```

*      the user for which the permissions are searched
* @param permission
*      the permission checked
* @param sr
*      the SearchResult that merges the permissions as the tree is
*      traversed
* @param node
*      the current node
* @param pathParts
*      the list of path segments to traverse
* @return the final SearchResult that merges the permissions
*/

```

```

SearchResult getUserPermission(String user, TreeNode.Permission permission, SearchResult sr,
    TreeNode node, List<String> pathParts) {
    read.lock();
    try {
        if (node == null) {
            node = root;
        }
        if (sr == null) {
            sr = new SearchResult();
        }

        Boolean currentNodeAllows = node.isUserAuthorized(user, permission);
        if (currentNodeAllows == Boolean.TRUE) {
            sr.setLastNodeAllowedAccess(Boolean.TRUE);
        } else if (currentNodeAllows == Boolean.FALSE) {
            sr.setLastNodeAllowedAccess(Boolean.FALSE);
        }

        if (pathParts == null || pathParts.isEmpty()) {
            sr.setLastNode(node);
            sr.setUnprocessedPaths(null);
            return sr;
        } else {

            String key = pathParts.get(0);
            if (key != null && key.length() > 0) {
                TreeNode child = node.getChild(key);
                if (child != null) {
                    pathParts.remove(0);
                    return getUserPermission(user, permission, sr, child, pathParts);
                }
            }
            sr.setLastNode(node);
            return sr;
        }
    }
}

```

```

    } finally {
        read.unlock();
    }
}

/**
 * Find the allowed Users for a given resource by traversing the whole
 * permission tree.
 *
 * @param sr
 *     - search result to contain allowed users
 * @param node
 *     - current node
 * @param permission
 *     - permission
 * @param pathParts
 *     - list of path segments to traverse
 * @return - search result with allowed users
 */

SearchResult getAllowedUsersForResource(SearchResult sr, TreeNode node,
    TreeNode.Permission permission, List<String> pathParts) {
    read.lock();
    try {
        if (node == null) {
            node = root;
        }
        if (sr == null) {
            sr = new SearchResult();
        }

        /**
         * Add allowed users of the current node to our list in the sr
         */
        Map<String, BitSet> allowUsers = node.getUserAllowPermissions();
        for (Map.Entry<String, BitSet> entry : allowUsers.entrySet()) {
            BitSet bs = entry.getValue();
            if (bs.get(permission.ordinal())) {
                if (!sr.getAllowedEntities().contains(entry.getKey())) {
                    sr.getAllowedEntities().add(entry.getKey());
                }
            }
        }
    }

    /**
     * Remove denied users of the current node from our list in the sr
     */
    Map<String, BitSet> denyUsers = node.getUserDenyPermissions();

```

```

for (Map.Entry<String, BitSet> entry : denyUsers.entrySet()) {
    BitSet bs = entry.getValue();
    if (bs.get(permission.ordinal())
        && sr.getAllowedEntities().contains(entry.getKey())) {
        sr.getAllowedEntities().remove(entry.getKey());
    }
}

if (pathParts == null || pathParts.isEmpty()) {
    sr.setLastNode(node);
    sr.setUnprocessedPaths(null);
    return sr;
} else {
    String key = pathParts.get(0);
    if (key != null && key.length() > 0) {
        TreeNode child = node.getChild(key);
        if (child != null) {
            pathParts.remove(0);
            return getAllowedUsersForResource(sr, child, permission, pathParts);
        }
    }
    sr.setLastNode(node);
    return sr;
}
} finally {
    read.unlock();
}
}

```

```

/**
 * Find the allowed Roles for a given resource by traversing the whole
 * permission tree.
 *
 * @param sr
 *         - search result to contain allowed roles
 * @param node
 *         - current node
 * @param permission
 *         - permission
 * @param pathParts
 *         - list of path segments to traverse
 * @return - search result with allowed roles
 */

```

```

SearchResult getAllowedRolesForResource(SearchResult sr, TreeNode node,
    TreeNode.Permission permission, List<String> pathParts) {
    read.lock();
    try {

```

```

if (node == null) {
    node = root;
}

if (sr == null) {
    sr = new SearchResult();
}

/**
 * Add allowed roles of the current node to our list in the sr
 */
Map<String, BitSet> allowRoles = node.getRoleAllowPermissions();
for (Map.Entry<String, BitSet> entry : allowRoles.entrySet()) {
    BitSet bs = entry.getValue();
    if (bs.get(permission.ordinal())) {
        if (!sr.getAllowedEntities().contains(entry.getKey())) {
            sr.getAllowedEntities().add(entry.getKey());
        }
    }
}

/**
 * Remove denied roles of the current node from our list in the sr
 */
Map<String, BitSet> denyRoles = node.getRoleDenyPermissions();
for (Map.Entry<String, BitSet> entry : denyRoles.entrySet()) {
    BitSet bs = entry.getValue();
    if (bs.get(permission.ordinal())
        && sr.getAllowedEntities().contains(entry.getKey())) {
        sr.getAllowedEntities().remove(entry.getKey());
    }
}

if (pathParts == null || pathParts.isEmpty()) {
    sr.setLastNode(node);
    sr.setUnprocessedPaths(null);
    return sr;
} else {
    String key = pathParts.get(0);
    if (key != null && key.length() > 0) {
        TreeNode child = node.getChild(key);
        if (child != null) {
            pathParts.remove(0);
            return getAllowedRolesForResource(sr, child, permission, pathParts);
        }
    }
    sr.setLastNode(node);
    return sr;
}

```

```

    }
  } finally {
    read.unlock();
  }
}

/**
 * Find the denied Roles for a given resource by traversing the whole
 * permission tree.
 *
 * @param sr
 *       - search result to contain denied roles
 * @param node
 *       - current node
 * @param permission
 *       - permission
 * @param pathParts
 *       - list of path segments to traverse
 * @return - search result with denied roles
 */
SearchResult getDeniedRolesForResource(SearchResult sr, TreeNode node,
    TreeNode.Permission permission, List<String> pathParts) {

  read.lock();
  try {
    if (sr == null) {
      sr = new SearchResult();
    }

    if (node == null) {
      node = root;
    }

    /**
     * Add denied roles of the current node to our list in the sr
     */
    Map<String, BitSet> denyRoles = node.getRoleDenyPermissions();
    for (Map.Entry<String, BitSet> entry : denyRoles.entrySet()) {
      BitSet bs = entry.getValue();
      if (bs.get(permission.ordinal())) {
        if (!sr.getDeniedEntities().contains(entry.getKey())) {
          sr.getDeniedEntities().add(entry.getKey());
        }
      }
    }
  }

  /**
   * Remove allowed roles of the current node from our list in the sr

```

```

*/
Map<String, BitSet> allowRoles = node.getRoleAllowPermissions();
for (Map.Entry<String, BitSet> entry : allowRoles.entrySet()) {
    BitSet bs = entry.getValue();
    if (bs.get(permission.ordinal()) && sr.getDeniedEntities().contains(entry.getKey())) {
        sr.getDeniedEntities().remove(entry.getKey());
    }
}

if (pathParts == null || pathParts.isEmpty()) {
    sr.setLastNode(node);
    sr.setUnprocessedPaths(null);
    return sr;
} else {
    String key = pathParts.get(0);
    if (key != null && key.length() > 0) {
        TreeNode child = node.getChild(key);
        if (child != null) {
            pathParts.remove(0);
            return getDeniedRolesForResource(sr, child, permission, pathParts);
        }
    }
    sr.setLastNode(node);
    return sr;
}
} finally {
    read.unlock();
}
}

```

```

/**
 * Find the denied users for a given resource by traversing the whole
 * permission tree.
 *
 * @param sr
 *     - search result to contain denied users
 * @param node
 *     - current node
 * @param permission
 *     - permission
 * @param pathParts
 *     - list of path segments to traverse
 * @return - search result with denied users
 */

```

```

SearchResult getDeniedUsersForResource(SearchResult sr, TreeNode node,
    TreeNode.Permission permission, List<String> pathParts) {
    read.lock();
    try {

```

```

if (sr == null) {
    sr = new SearchResult();
}

if (node == null) {
    node = root;
}

/**
 * Add denied users of the current node to our list in the sr
 */
Map<String, BitSet> denyUsers = node.getUserDenyPermissions();
for (Map.Entry<String, BitSet> entry : denyUsers.entrySet()) {
    BitSet bs = entry.getValue();
    if (bs.get(permission.ordinal())) {
        if (!sr.getDeniedEntities().contains(entry.getKey())) {
            sr.getDeniedEntities().add(entry.getKey());
        }
    }
}

/**
 * Remove allowed users of the current node from our list in the sr
 */
Map<String, BitSet> allowUsers = node.getUserAllowPermissions();
for (Map.Entry<String, BitSet> entry : allowUsers.entrySet()) {
    BitSet bs = entry.getValue();
    if (bs.get(permission.ordinal()) && sr.getDeniedEntities().contains(entry.getKey())) {
        sr.getDeniedEntities().remove(entry.getKey());
    }
}

if (pathParts == null || pathParts.isEmpty()) {
    sr.setLastNode(node);
    sr.setUnprocessedPaths(null);
    return sr;
} else {
    String key = pathParts.get(0);
    if (key != null && key.length() > 0) {
        TreeNode child = node.getChild(key);
        if (child != null) {
            pathParts.remove(0);
            return getDeniedUsersForResource(sr, child, permission, pathParts);
        }
    }
    sr.setLastNode(node);
    return sr;
}

```

```

    } finally {
        read.unlock();
    }
}

void clearRoleAuthorization(String roleName, String action) throws UserStoreException {
    TreeNode.Permission permission = PermissionTreeUtil.actionToPermission(action);
    clearRoleAuthorization(roleName, root, permission);
    invalidateCache(root);
}

void updateRoleNameInCache(String roleName, String newRoleName) throws UserStoreException {
    updateRoleNameInCache(roleName, newRoleName, root);
    invalidateCache(root);
}

void clearRoleAuthorization(String roleName) throws UserStoreException {
    clearRoleAuthorization(roleName, root);
    invalidateCache(root);
}

void clearRoleAuthorization(String roleName, String resourceId, String action) throws UserStoreException {
    SearchResult sr = getNode(root, PermissionTreeUtil.toComponenets(resourceId));
    write.lock();
    try {
        if (sr.getUnprocessedPaths() == null) {
            TreeNode.Permission permission = PermissionTreeUtil.actionToPermission(action);

            Map<String, BitSet> allowRoles = sr.getLastNode().getRoleAllowPermissions();
            BitSet bs = allowRoles.get(roleName);
            if (bs != null) {
                bs.clear(permission.ordinal());
            }

            Map<String, BitSet> denyRoles = sr.getLastNode().getRoleDenyPermissions();
            bs = denyRoles.get(roleName);
            if (bs != null) {
                bs.clear(permission.ordinal());
            }
        }
        invalidateCache(root);
    } finally {
        write.unlock();
    }
}

void clearUserAuthorization(String userName) throws UserStoreException {
    clearUserAuthorization(userName, root);
}

```



```

        invalidateCache(root);
    }

void clearUserAuthorization(String userName, String resourceId, String action) throws UserStoreException {
    write.lock();
    try {
        SearchResult sr = getNode(root, PermissionTreeUtil.toComponentets(resourceId));
        if (sr.getUnprocessedPaths() == null || sr.getUnprocessedPaths().isEmpty()) {
            TreeNode.Permission permission = PermissionTreeUtil.actionToPermission(action);

            Map<String, BitSet> allowUsers = sr.getLastNode().getUserAllowPermissions();
            BitSet bs = allowUsers.get(userName);
            if (bs != null) {
                bs.clear(permission.ordinal());
            }

            Map<String, BitSet> denyUsers = sr.getLastNode().getUserDenyPermissions();
            bs = denyUsers.get(userName);
            if (bs != null) {
                bs.clear(permission.ordinal());
            }
        }
        invalidateCache(root);
    } finally {
        write.unlock();
    }
}

/**
 * This method is only used for UI permissions
 *
 * @param roles roles that needs to get resources
 * @param resources resource list
 * @param path list of path segments to traverse
 * @throws UserStoreException throws
 */

```

```

void getUIResourcesForRoles(String[] roles, List<String> resources, String path) throws UserStoreException {
    List<String> paths = PermissionTreeUtil.toComponentets(path);
    TreeNode node = null;
    read.lock();
    try {
        node = root;
        for (String name : paths) {
            node = node.getChild(name);
            if (node == null) {
                break;
            }
        }
    }
}

```

```

    }
} finally {
    read.unlock();
}

if (node == null) {
    throw new UserStoreException("Invalid Permission root path provided");
}

TreeNode permissionNode = node.getChild(CarbonConstants.UI_PERMISSION_NAME);

if (permissionNode == null) {
    throw new UserStoreException("Invalid Permission root path provided");
}

if (path.endsWith("/")) {
    path = path.substring(0, path.length()-1);
}

getUIResourcesForRoles(roles,
    resources,
    "", /* The old code has this. So use the same thing*/
    PermissionTreeUtil.actionToPermission(CarbonConstants.UI_PERMISSION_ACTION),
    permissionNode);
}

void getUIResourcesForRoles(String[] roles, List<String> resources, String path,
    TreeNode.Permission permission, TreeNode node) {
    read.lock();
    try {
        String currentPath = path + "/" + node.getName();

        Map<String, BitSet> bsAllowed = node.getRoleAllowPermissions();
        for (String role : roles) {
            BitSet bs = bsAllowed.get(role);
            if (bs != null && bs.get(permission.ordinal())) {
                resources.add(currentPath);
                return;
            }
        }

        Map<String, TreeNode> children = node.getChildren();
        for (TreeNode treeNode : children.values()) {
            if (treeNode != null) {
                getUIResourcesForRoles(roles, resources, currentPath, permission, treeNode);
            }
        }
    } finally {

```

```

        read.unlock();
    }
}

void clearResourceAuthorizations(String resourceId) throws UserStoreException {
    write.lock();
    try {
        SearchResult sr = getNode(root, PermissionTreeUtil.toComponentets(resourceId));
        if (sr.getUnprocessedPaths() == null) {
            sr.getLastNode().getUserAllowPermissions().clear();
            sr.getLastNode().getUserDenyPermissions().clear();
            sr.getLastNode().getRoleAllowPermissions().clear();
            sr.getLastNode().getRoleDenyPermissions().clear();
        }
        invalidateCache(root);
    } finally {
        write.unlock();
    }
}

```

```

////////////////////////////////////

```

```

/**
 * Clear all role authorization based on action starting from the given node
 *
 * @param node
 *     the start node to begin the search
 * @param
 * @return the result as a SearchResultpathParts a List of
 * @see SearchResult
 */
private void clearRoleAuthorization(String roleName, TreeNode node, TreeNode.Permission permission) {
    write.lock();
    try {
        Map<String, BitSet> allowRoles = node.getRoleAllowPermissions();
        Map<String, BitSet> denyRoles = node.getRoleDenyPermissions();

        BitSet bs = allowRoles.get(roleName);
        if (bs != null) {
            bs.clear(permission.ordinal());
        }

        bs = denyRoles.get(roleName);
        if (bs != null) {
            bs.clear(permission.ordinal());
        }

        Map<String, TreeNode> childMap = node.getChildren();
    }
}

```

```

        if (childMap != null && childMap.size() > 0) {
            for (TreeNode treeNode : childMap.values()) {
                clearRoleAuthorization(roleName, treeNode, permission);
            }
        }
        // invalidateCache(root);
    } finally {
        write.unlock();
    }
}

/**
 * Clear all role authorization based on action starting from the given node
 *
 * @param node
 *         the start node to begin the search
 * @param
 * @return the result as a SearchResultpathParts a List of
 * @see SearchResult
 */
private void clearRoleAuthorization(String roleName, TreeNode node) {
    write.lock();
    try {
        Map<String, BitSet> allowRoles = node.getRoleAllowPermissions();
        Map<String, BitSet> denyRoles = node.getRoleDenyPermissions();

        BitSet bs = allowRoles.get(roleName);
        if (bs != null) {
            allowRoles.remove(roleName);
        }

        bs = denyRoles.get(roleName);
        if (bs != null) {
            denyRoles.remove(roleName);
        }

        Map<String, TreeNode> childMap = node.getChildren();
        if (childMap != null && childMap.size() > 0) {
            for (TreeNode treeNode : childMap.values()) {
                clearRoleAuthorization(roleName, treeNode);
            }
        }
        // invalidateCache(root);
    } finally {
        write.unlock();
    }
}

```

```

private void updateRoleNameInCache(String roleName, String newRoleName, TreeNode node) {
    Map<String, BitSet> allowRoles = node.getRoleAllowPermissions();
    Map<String, BitSet> denyRoles = node.getRoleDenyPermissions();
    write.lock();
    try {
        BitSet bs = allowRoles.get(roleName);
        if (bs != null) {
            allowRoles.remove(roleName);
            allowRoles.put(newRoleName, bs);
        }

        bs = denyRoles.get(roleName);
        if (bs != null) {
            denyRoles.remove(roleName);
            denyRoles.put(newRoleName, bs);
        }

        Map<String, TreeNode> childMap = node.getChildren();
        if (childMap != null && childMap.size() > 0) {
            for (TreeNode treeNode : childMap.values()) {
                updateRoleNameInCache(roleName, newRoleName, treeNode);
            }
        }
    } finally {
        write.unlock();
    }
}

```

```

private void clearUserAuthorization(String userName, TreeNode node) {
    write.lock();
    try {
        Map<String, BitSet> allowUsers = node.getUserAllowPermissions();
        Map<String, BitSet> denyUsers = node.getUserDenyPermissions();

        BitSet bs = allowUsers.get(userName);
        if (bs != null) {
            allowUsers.remove(userName);
        }

        bs = denyUsers.get(userName);
        if (bs != null) {
            denyUsers.remove(userName);
        }

        Map<String, TreeNode> childMap = node.getChildren();
        if (childMap != null && childMap.size() > 0) {

```

```

        for (TreeNode treeNode : childMap.values()) {
            clearUserAuthorization(userName, treeNode);
        }
    }
    //invalidateCache(root);
} finally {
    write.unlock();
}
}

/**
 * Clears all permission information in current node.
 */
void clear() {
    Cache<PermissionTreeCacheKey, GhostResource<TreeNode>> permissionCache =
this.getPermissionTreeCache();
    if(permissionCache != null) {
        write.lock();
        try {
            this.root.clearNodes();
            this.hashValueOfRootNode = -1;
            PermissionTreeCacheKey cacheKey = new PermissionTreeCacheKey(cacheIdentifier, tenantId);
            // TODO Is this clear all?
            permissionCache.remove(cacheKey);
        } finally {
            write.unlock();
        }
    }
}

/**
 * update permission tree from cache
 *
 * @throws org.wso2.carbon.user.core.UserStoreException
 *         throws if fail to update permission tree from DB
 */
void updatePermissionTree() throws UserStoreException {
    Cache<PermissionTreeCacheKey, GhostResource<TreeNode>> permissionCache =
this.getPermissionTreeCache();
    if(permissionCache != null) {
        PermissionTreeCacheKey cacheKey = new PermissionTreeCacheKey(cacheIdentifier, tenantId);
        GhostResource<TreeNode> cacheEntry = (GhostResource<TreeNode>) permissionCache.get(cacheKey);
        if (permissionCache.containsKey(cacheKey) && cacheEntry != null) {
            if (cacheEntry.getResource() == null) {

```

```

synchronized (this) {
    cacheEntry = (GhostResource<TreeNode>) permissionCache.get(cacheKey);
    if (cacheEntry.getResource() == null) {
        updatePermissionTreeFromDB();
        cacheEntry.setResource(root);
        if (log.isDebugEnabled()) {
            log.debug("Set resource to true");
        }
    }
}
} else {
    synchronized (this) {
        updatePermissionTreeFromDB();
        cacheKey = new PermissionTreeCacheKey(cacheIdentifier, tenantId);
        cacheEntry = new GhostResource<TreeNode>(root);
        permissionCache.put(cacheKey, cacheEntry);
        if (log.isDebugEnabled()) {
            log.debug("Loaded from database");
        }
    }
}
}

private void invalidateCache(TreeNode root) throws UserStoreException {
    Cache<PermissionTreeCacheKey, GhostResource<TreeNode>> permissionCache =
this.getPermissionTreeCache();
    if(permissionCache != null) {
        PermissionTreeCacheKey cacheKey = new PermissionTreeCacheKey(cacheIdentifier, tenantId);
        permissionCache.remove(cacheKey);
        //sending cluster message
        // CacheInvalidator invalidator = UMListenerServiceComponent.getCacheInvalidator();
        // try {
        //     if (log.isDebugEnabled()) {
        //         log.debug("Calling invalidation cache");
        //     }
        //     if (invalidator != null) {
        //         invalidator.invalidateCache(PermissionTreeCache.PERMISSION_CACHE, cacheKey);
        //     } else {
        //         if (log.isDebugEnabled()) {
        //             log.debug("Not calling invalidation cache");
        //         }
        //     }
        // } catch (CacheException e) {
        //     // TODO Auto-generated catch block
        //     e.printStackTrace();
        // }
}
}

```

```

    }

}

//////////////////////////////////// private methods follows //////////////////////////////////////

/**
 * populate permission tree from database
 *
 * @throws org.wso2.carbon.user.core.UserStoreException
 *         throws if fail to update permission tree from DB
 */
void updatePermissionTreeFromDB() throws UserStoreException {
    PermissionTree tree = new PermissionTree();
    ResultSet rs = null;
    PreparedStatement prepStmt1 = null;
    PreparedStatement prepStmt2 = null;
    Connection dbConnection = null;
    try {
        dbConnection = getDBConnection();
        // Populating role permissions
        prepStmt1 = dbConnection.prepareStatement(DBConstants.GET_EXISTING_ROLE_PERMISSIONS);
        prepStmt1.setInt(1, tenantId);
        prepStmt1.setInt(2, tenantId);

        rs = prepStmt1.executeQuery();

        while (rs.next()) {
            short allow = rs.getShort(3);

            String roleName = rs.getString(1);
            String domain = rs.getString(5);
            String roleWithDomain = UserCoreUtil.addDomainToName(roleName, domain);
            roleWithDomain = roleWithDomain.toLowerCase();

            if (allow == UserCoreConstants.ALLOW) {
                tree.authorizeRoleInTree(roleWithDomain, rs.getString(2), rs.getString(4), false);
            } else {
                tree.denyRoleInTree(roleWithDomain, rs.getString(2), rs.getString(4), false);
            }
        }
    }

    // Populating user permissions
    prepStmt2 = dbConnection.prepareStatement(DBConstants.GET_EXISTING_USER_PERMISSIONS);
    prepStmt2.setInt(1, tenantId);
    prepStmt2.setInt(2, tenantId);
    rs = prepStmt2.executeQuery();

    while (rs.next()) {

```



```

        short allow = rs.getShort(3);
        if (allow == UserCoreConstants.ALLOW) {
            tree.authorizeUserInTree(rs.getString(1), rs.getString(2), rs.getString(4), false);
        } else {
            tree.denyUserInTree(rs.getString(1), rs.getString(2), rs.getString(4), false);
        }
    }

    write.lock();
    try {
        this.root = tree.root;
    } finally {
        write.unlock();
    }

} catch (SQLException e) {
    throw new UserStoreException(
        "Error loading authorizations. Please check the database. Error message is "
        + e.getMessage(), e);
} finally {
    DatabaseUtil.closeAllConnections(dbConnection, rs, prepStmt1, prepStmt2);
}
}

/**
 * Find a node on the tree, starting from the given nodes, and using the
 * list of path segments
 *
 * @param node
 *     the start node to begin the search
 * @param pathParts
 *     a List of path segments - i.e. collection/resource names
 * @return the result as a SearchResult
 * @see SearchResult
 */
private SearchResult getNode(TreeNode node, List<String> pathParts) {
    if (pathParts == null || pathParts.isEmpty()) {
        return new SearchResult(node, null);
    } else {
        String key = pathParts.get(0);
        if (key != null && key.length() > 0) {
            TreeNode child = node.getChild(key);
            if (child != null) {
                pathParts.remove(0);
                if (!pathParts.isEmpty()) {
                    return getNode(child, pathParts);
                }
            }
        }
    }
}

```

```

        } else {
            return new SearchResult(child, null);
        }
    }
}
return new SearchResult(node, pathParts);
}
}

private Connection getDBConnection() throws SQLException {
    Connection dbConnection = dataSource.getConnection();
    dbConnection.setAutoCommit(false);
    return dbConnection;
}

}
/*
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 * specific language governing permissions and limitations
 * under the License.
 */
package org.wso2.carbon.user.core.config.multitenancy;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.wso2.carbon.user.api.RealmConfiguration;
import org.wso2.carbon.user.api.TenantMgtConfiguration;
import org.wso2.carbon.user.core.UserCoreConstants;
import org.wso2.carbon.user.core.UserStoreException;
import org.wso2.carbon.user.core.tenant.Tenant;
import org.wso2.carbon.user.core.util.UserCoreUtil;

public class SimpleRealmConfigBuilder implements MultiTenantRealmConfigBuilder {

    private static Log log = LogFactory.getLog(SimpleRealmConfigBuilder.class);

```

```

public RealmConfiguration getRealmConfigForTenantToCreateRealm(
    RealmConfiguration bootStrapConfig, RealmConfiguration persistedConfig, int tenantId)
    throws UserStoreException {

```

```

    RealmConfiguration realmConfig;
    try {
        realmConfig = bootStrapConfig.cloneRealmConfigurationWithoutSecondary();
        realmConfig.setAdminUserName(persistedConfig.getAdminUserName());
        realmConfig.setAdminPassword(persistedConfig.getAdminPassword());
        realmConfig.setAdminRoleName(persistedConfig.getAdminRoleName());
        realmConfig.setEveryOneRoleName(persistedConfig.getEveryOneRoleName());
        realmConfig.setSecondaryRealmConfig(persistedConfig.getSecondaryRealmConfig());
    } catch (Exception e) {
        String errorMessage = "Error while building tenant specific realm configuration" +
            "when creating tenant's realm.";
        log.error(errorMessage, e);
        throw new UserStoreException(errorMessage, e);
    }
    return realmConfig;
}

```

```

public RealmConfiguration getRealmConfigForTenantToCreateRealmOnTenantCreation(
    RealmConfiguration bootStrapConfig, RealmConfiguration persistedConfig, int tenantId)
    throws UserStoreException {
    return persistedConfig;
}

```

```

public RealmConfiguration getRealmConfigForTenantToPersist(RealmConfiguration bootStrapConfig,
    TenantMgtConfiguration tenantMgtConfig,
    Tenant tenantInfo, int tenantId)
    throws UserStoreException {
    try {
        RealmConfiguration realmConfig = bootStrapConfig.cloneRealmConfigurationWithoutSecondary();
        removePropertiesFromTenantRealmConfig(realmConfig);
        realmConfig.setAdminUserName(UserCoreUtil.removeDomainFromName(tenantInfo.getAdminName()));
        realmConfig.setAdminPassword(UserCoreUtil.getDummyPassword());
        realmConfig.setTenantId(tenantId);

        realmConfig.setEveryOneRoleName(UserCoreUtil.
            removeDomainFromName(realmConfig.getEveryOneRoleName()));

        return realmConfig;
    } catch (Exception e) {
        log.error(e.getMessage(), e);
        throw new UserStoreException(e.getMessage(), e);
    }
}

```

```

private void removePropertiesFromTenantRealmConfig(RealmConfiguration tenantRealmConfiguration) {
    tenantRealmConfiguration.getRealmProperties().clear();

    //remove sensitive information from user store properties before persisting
    //tenant specific user-mgt.xml
    //but keep the tenant manager property
    String tenantManagerKey = UserCoreConstants.TenantMgtConfig.LOCAL_NAME_TENANT_MANAGER;
    String tenantManagerValue = tenantRealmConfiguration.getUserStoreProperty(tenantManagerKey);
    // we are not keeping sensitive information with JDBC. Only the datasource name
    //tenantRealmConfiguration.getUserStoreProperties().clear();
    tenantRealmConfiguration.getUserStoreProperties().put(tenantManagerKey, tenantManagerValue);

    tenantRealmConfiguration.getAuthzProperties().clear();
}

}

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 * specific language governing permissions and limitations
 * under the License.
 */
package org.wso2.carbon.user.core.model;

import java.util.ArrayList;
import java.util.List;

public class SystemPermissions {

    private static List<String> permissions = new ArrayList<String>();

    public static void addSystemPermission(String value){
        permissions.add(value);
    }

    public static List<String> getSystemPermission(){
        return permissions;
    }
}

```

}

}

1.912 org.wso2.carbon.user.mgt 4.2.1

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```
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 */
```

```
package org.wso2.carbon.user.mgt.permission;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.osgi.framework.Bundle;
import org.osgi.framework.BundleContext;
import org.osgi.framework.BundleEvent;
import org.osgi.framework.BundleListener;
import org.wso2.carbon.context.PrivilegedCarbonContext;
import org.wso2.carbon.registry.core.Collection;
import org.wso2.carbon.registry.core.Registry;
import org.wso2.carbon.user.mgt.UserMgtConstants;
import org.wso2.carbon.user.mgt.internal.UserMgtDSCComponent;
import org.wso2.carbon.utils.component.xml.Component;
import org.wso2.carbon.utils.component.xml.ComponentConfigFactory;
import org.wso2.carbon.utils.component.xml.builder.ManagementPermissionsBuilder;
import org.wso2.carbon.utils.component.xml.config.ManagementPermission;
import org.wso2.carbon.utils.multitenancy.MultitenantConstants;

import java.io.InputStream;
import java.net.URL;

/**
```

```

* Adds management permissions declared in component.xml of each bundle.
*/
public class ManagementPermissionsAdder implements BundleListener {
    private static Log log = LogFactory.getLog(ManagementPermissionsAdder.class);

    public void bundleChanged(BundleEvent event) {
        Bundle bundle = event.getBundle();
        try {
            PrivilegedCarbonContext carbonContext = PrivilegedCarbonContext.getThreadLocalCarbonContext();
            carbonContext.setTenantDomain(MultitenantConstants.SUPER_TENANT_DOMAIN_NAME);
            carbonContext.setTenantId(MultitenantConstants.SUPER_TENANT_ID);

            if (event.getType() == BundleEvent.STARTED) {
                addUIPermissionFromBundle(bundle);
            }
        } catch (Exception e) {
            log.error("Error occurred when processing component xml in bundle " +
                bundle.getSymbolicName(), e);
        }
    }

    public void addUIPermissionFromBundle(Bundle bundle) throws Exception {
        BundleContext bundleContext = bundle.getBundleContext();
        if (bundleContext == null) { // If the bundle got uninstalled, the bundleContext will be null
            return;
        }

        URL url = bundleContext.getBundle().getEntry("META-INF/component.xml");
        if (url == null) {
            return;
        }

        InputStream xmlStream = url.openStream();
        if (xmlStream == null) {
            return;
        }

        if (log.isDebugEnabled()) {
            log.debug("Adding permissions in bundle " +
                bundle.getSymbolicName());
        }

        Component component = ComponentConfigFactory.build(xmlStream);
        ManagementPermission[] uiPermissions = null;
        if (component != null) {
            uiPermissions = (ManagementPermission[]) component
                .getComponentConfig(ManagementPermissionsBuilder.LOCALNAME_MGT_PERMISSIONS);
        }
    }
}

```

```

if (uiPermissions != null) {
    // at the startup we are only adding permission only to tenant 0
    Registry registry = UserMgtDSComponent.getRegistryService().getGovernanceSystemRegistry();
    for (ManagementPermission uiPermission : uiPermissions) {
        if (registry.resourceExists(uiPermission.getResourceId())) {
            continue;
        }
        Collection resource = registry.newCollection();
        resource.setProperty(UserMgtConstants.DISPLAY_NAME, uiPermission.getDisplayName());
        registry.put(uiPermission.getResourceId(), resource);
    }
}
}

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 * under the License.
 */
package org.wso2.carbon.user.mgt.permission;

import org.wso2.carbon CarbonException;
import org.wso2.carbon.core.util.AdminServicesUtil;
import org.wso2.carbon.user.api.Permission;
import org.wso2.carbon.user.core.AuthorizationManager;
import org.wso2.carbon.user.core.UserRealm;
import org.wso2.carbon.user.core.UserStoreException;
import org.wso2.carbon.user.core.util.UserCoreUtil;
import org.wso2.carbon.user.mgt.UserMgtConstants;
import org.wso2.carbon.user.mgt.common.UserAdminException;

/**
 * This is the class should be used by Admin service authors to get the Registry
 * and Realms.

```

```

*/
public class ManagementPermissionUtil {

    /**
     * Should only be called by the Admin Services.
     * @param roleName
     * @param rawPermissions
     * @throws UserAdminException
     */
    public static void updateRoleUIPermission(String roleName, String[] rawPermissions)
        throws UserAdminException {
        try {
            String[] optimizedList = UserCoreUtil.optimizePermissions(rawPermissions);
            UserRealm realm = AdminServicesUtil.getUserRealm();
            AuthorizationManager authMan = realm.getAuthorizationManager();
            authMan.clearRoleActionOnAllResources(roleName, UserMgtConstants.EXECUTE_ACTION);
            for (String path : optimizedList) {
                authMan.authorizeRole(roleName, path, UserMgtConstants.EXECUTE_ACTION);
            }
        } catch (UserStoreException e) {
            // not logging already logged
            throw new UserAdminException(e.getMessage(), e);
        } catch (CarbonException e) {
            throw new UserAdminException(e.getMessage(), e);
        }
    }

    public static Permission[] getRoleUIPermissions(String roleName, String[] rawPermissions)
        throws UserAdminException {
        Permission[] permissions = new Permission[0];
        try {

            if (rawPermissions == null || rawPermissions.length == 0) {
                return permissions;
            }

            String[] optimizedList = UserCoreUtil.optimizePermissions(rawPermissions);
            UserRealm realm = AdminServicesUtil.getUserRealm();
            AuthorizationManager authMan = realm.getAuthorizationManager();
            authMan.clearRoleActionOnAllResources(roleName, UserMgtConstants.EXECUTE_ACTION);
            permissions = new Permission[optimizedList.length];
            int i = 0;
            for (String path : optimizedList) {
                permissions[i++] = new Permission(path, UserMgtConstants.EXECUTE_ACTION);
            }
        } catch (UserStoreException e) {
            // not logging already logged
            throw new UserAdminException(e.getMessage(), e);
        }
    }
}

```



```

    } catch (CarbonException e) {
        throw new UserAdminException(e.getMessage(), e);
    }

    return permissions;
}

}
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 */
package org.wso2.carbon.user.mgt.listeners;

import org.wso2.carbon.CarbonConstants;
import org.wso2.carbon.registry.core.RegistryConstants;
import org.wso2.carbon.registry.core.utils.RegistryUtils;
import org.wso2.carbon.user.core.AuthorizationManager;
import org.wso2.carbon.user.core.UserStoreException;
import org.wso2.carbon.user.core.common.AbstractAuthorizationManagerListener;
import org.wso2.carbon.user.core.listener.AuthorizationManagerListener;

/**
 * Class to restrict set authorization for super tenant permission nodes
 */
public class PermissionAuthorizationListener extends AbstractAuthorizationManagerListener
    implements AuthorizationManagerListener {
    public int getExecutionOrderId() {
        return AuthorizationManagerListener.PERMISSION_AUTHORIZATION_LISTENER;
    }
}

public boolean isRoleAuthorized(String roleName, String resourceId, String action,
    AuthorizationManager authorizationManager) throws
    UserStoreException {
    return isAuthorized(resourceId, authorizationManager);
}

```

```

public boolean isUserAuthorized(String userName, String resourceId, String action,
                               AuthorizationManager authorizationManager) throws
    UserStoreException {
    return isAuthorized(resourceId, authorizationManager);
}

public boolean isAuthorized(String resourceId,
                            AuthorizationManager authorizationManager) throws
    UserStoreException {
    int tenantId = authorizationManager.getTenantId();
    if (tenantId == CarbonConstants.SUPER_TENANT_ID) {
        // no restrictions for the super tenant
        return true;
    }
    // so don't allow the rest of the tenants to set any permission to protected nodes
    String protectedPermissionPath = RegistryUtils.getAbsolutePath(null,
        RegistryConstants.CONFIG_REGISTRY_BASE_PATH +
        CarbonConstants.UI_PROTECTED_PERMISSION_COLLECTION);

    return !(resourceId.startsWith(protectedPermissionPath));
}

public void resetPermissionOnUpdateRole(String roleName, String newRoleName)
    throws UserStoreException {
}
}

```

1.913 org.wso2.carbon.user.mgt.common

4.2.0

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```

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*/

```
package org.wso2.carbon.user.mgt.common;
```

```
import java.util.Arrays;
```

```
public class UIPermissionNode {
```

```
    private String resourcePath;
```

```
    private String displayName;
```

```
    private boolean isSelected;
```

```
    private UIPermissionNode[] nodeList = new UIPermissionNode[0];
```

```
    public UIPermissionNode() {
```

```
    }
```

```
    public UIPermissionNode(String resourcePath, String displayName) {
```

```
        this.resourcePath = resourcePath;
```

```
        this.displayName = displayName;
```

```
    }
```

```
    public UIPermissionNode(String resourcePath, String displayName, boolean isSelected) {
```

```
        super();
```

```
        this.resourcePath = resourcePath;
```

```
        this.displayName = displayName;
```

```
        this.isSelected = isSelected;
```

```
    }
```

```
    public String getResourcePath() {
```

```
        return resourcePath;
```

```
    }
```

```
    public void setResourcePath(String resourcePath) {
```

```
        this.resourcePath = resourcePath;
```

```
    }
```

```
    public String getDisplayName() {
```

```
        return displayName;
```

```
    }
```

```
    public boolean isSelected() {
```

```
        return isSelected;
```

```

}

public void setDisplayName(String displayName) {
    this.displayName = displayName;
}

public void setSelected(boolean isSelected) {
    this.isSelected = isSelected;
}

public UIPermissionNode[] getNodeList() {
    return nodeList;
}

public void setNodeList(UIPermissionNode[] nodeList) {
    this.nodeList = Arrays.copyOf(nodeList, nodeList.length);
}
}

```

1.914 org.wso2.carbon.user.mgt.stub 4.2.0

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1.915 org.wso2.carbon.user.mgt.ui 4.2.0

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Γ g%M=4Fei_lg\$BO9W"o-|&`2j_D6sazH.x@"sQ+}eiRfBHRRr9e
EXrBT!H,Fu>3<Xoa1D::;8;/Px2`0<Cl# TvdsTV`g
IINq;HpG(;M@m|![[7IE,l"fh-|gmf6Wiowzu{ _L+N=<q=OR!@j|kqds}-C+?h\Ns/}% ^Q~;T|si|1&GnO4-
+C/9467Ej;AtV [lybK/g]-<#,:k,^_>`={5q(kuB.O4iHV9ATSg!St:Ry;k/<
^[f+]t|fH\$trn>~[Rr;_eyo.\vZVVn/Hw^?yq)
;_kK m~m6^VV!J%PX7{;v+#"d2_S+mU&V,_}|%6~2voKFH\$/]?S'{
t|ba4ExBd[^N5rz>\$m#X?2{&y,7-vd:((([p??31bD{(n)))NzW'LO?
5:[GL/,Z-[RVV\362k6om)a:xPc1gba+2_K/f={zrrr&Nz#S2vdXF5nU::6US:=[Y,{gleSn0
n[3oej]Ok0%'W,m>XzqRR1c,]>2e?}\$IU2)r{f.[dPDV1^]~XU,11,UWL:KQ^9bF1=|O6mi[J!>3nz0WLaQH\$Z@~/5
sLKT^LQT^<Ne5eN*B999"ucg1jkY8BIRwR><g71+5r ~P c][Zb-Eij.)2'|o{ };;
uLh{sZt:6=6I-i)8y/<|!"^S@[e^Rf7ok~zP(HcFCIY.)bS20P:_ {F#(F+^lb@T DgO
O(cE-9:4M3C)[(^15LGd!5 P+ c,-E-Rlq;_-jZ2e, D"kzZU^^\Lu\$|@"vo-iwPr|x[<oUV
Mu%pWHxAjVs+Mz3~e&e5w !r1GoC\t@rclN{tT
Ek7f6VtCUvjfGB:{/3RO\Gh6B^,pcW]VR8R:f[J'16<&?z17kGc@\$Z`2\{Fw k^Jwc> 8!E|y65HSf-]
M5><q}_o]Je{ :Hnc?./@1*<V(*JR)
RRd2\.h4c[|IHHkT*y12py:g32s`0vy3
5V{; T}E/:_@co88U_1c@8o
1|7d\t<{ !?luk^{g7vtS]D.ibu<etrSh
hMO/roM|yAbo4Vt\$D]uIf^v0.m@l{ GM9BDoNIPB!q^<I<|N2hio^=!dpZDg>^o|r/-vd:(U
I+/1Z!18ID'uG;KNIDAT:r\3^rj}bO{"}bk96DmcKw9s>7d2/=;yV9P0[^t&F\$S(oOF;+iJ0w6* @=;~
.Go;\65>~eSV]!"Ln)BEi@[:SbX`1X?L
SiZdk4RBhRWE.?_reU^]1u8*vwH/3\^d
EXrBWX"s&'T|f]F,R4z?cMS?bP|y[^[BNNN^^^b"PLI']xQ:^qg)PY,RnmtvRw@*e233E;}hcFG&1pLf#>bB%U/S&|
uW{Kqm9wPSPgO\ztET(c__w%E04^z~HZ/|@:|.i.k#>4P3T}azZ"(~iX\EKcs^v;ST^t/*31Az1)^V1:_
c|@/_:|_t/nk|G
o=;|r,^x3H@f~U ML^@x uuD=9QjVbBd7u9-4@c}4&~TG},ge+q9}>Tl\$yn9'7jn
P(x,C\@U7Iz5QX_2o|&`X,%r9JJw*CAUdzHXq;KQ09#r8M)rv@or.>agST}?*
SBG 1WWhv@!~:6EZ
N=j.S@R{::GaBPT*JP(JJ%rFb)^CBc%\$"
>K!"P|C/N1_t|@qKh:O`c\T/8y*?~"k7Y
}2@-PpvBHhhS3#9m;DfN+n)PdG!I?5 7O
`*:uioy|csOXDyB_-
>%=zBbq| WYM?RNBqK]:8~2ic)E7wPIRVck![cNgFQ]bI6*4rd,q(^3Y\!DI64#?t?L4MB~&L)'7,,P|+qkE:V9zM{E
Zy{yF>b[X/e5btQ60G)3i?riP|n9cwt&\Y+?Ifd6xot{7W.l#15WI){wu|VAb(1uRK]@GWkba
gXk1-y
S2w&~%m; }7HJ#;u"1rmp3XhRy3-Z6KO6>B
{9!:FF8W;P(SK\$*
e5?~ni>#s~;A q^Heb)
^iSyjEsm.f1-sx_v7xj]FIBM<a<cqv5IWiI s/LK._+VmJ\$~8JL5fJ &{mLf)_teFGgE)T45x(4{(.Y
sK~:[z1hrh)!'Uf]de"
/G*L2}ZH b70!T!7\$]r~fBQ""R3(L{)tpO\Ic}G8>
CEI!6X@,,GKBYGXo8YC\ZOb^ {?NOF2_J]D"9Nvtp_#i|&.:F]uuDGF39fF).s.=EepG(.SdIIdY(BRPQY5\$8AQRu
rJYIZ+ohh-Cl)(eC{/,"Ju"~S~y@aYvRfbU uYUBBH3N{Uwfa*d')fey,KkV&4DM "(2\yc0yg*g}_9
z1&%6Aa[jrD!by%NSQj`>s({R:/HZ,VU ~}mCBf,T*PttKjXeX[{eLxQ\CIZ}iU(j=4|+5kob'O
8~Re{2UpFc+zbR[!N+!txw_)Ykt+!/T

+A/
PjGc|v['w.v8H9K<G]1 |m\$ouWYc{"9IzoXuy\u
2x9)(Zwmpr=<XhfZ|#R.V~XPWKV6hv|6i%i>*b*?`j.Ox`AeVMfM5Gm o=?]MD
X-Spm>OH*hWT5co zy|y:zy/:|y
|\$:U\C|-OK6cjK#,c0'\boeIyeGi"+@
Y<|19e"l"W=2"M m%DLkF2h@Dk}wr\>xi|ky\SO\
&kYwyA(?..3s3-5Zh-5gtO);_3"o{%~q@ "2^p55yE!B#_c=<y7/jz3UD}}k)fe7XM95\Tik{p
3"DZIW2Wu|@>o:#.%eS"AUR?pFT=,UT~\gy;Us.g=|[VvwYkWy\6rnID*"byfUUe
*]sw+)oS!;WmNDDJdNLV%/y\Mn2^}>6U=i,k{r\$"&oLv\`Smo&EFn,dKzY-L45:>
|kY|yLgFGu<5,||;q@PKm#SW\$_{ZT6R
5:>T>V=yn)\L6~qa@o5:dnK\|6,X3=TYX7ZJjq+?:7h:@ |P~vL,`:g)[hF6rqr]
5Vb bO{ @t} }|a[o?&;g.!~AD3V
_. 5Q Meqfj[UpkqN9g%`s#?#"9YRK!*J^:X#SV+/?]jY2m=7[Zu|s%#q)7~.(8{d6(:<=q|Xtytnv(Dpfy.DQ-
[1op|d]~svVW<9x#N>:Gpq|[(E5l8;U?|e&8{na3S?[NO=8Q%dK=B _W8ef1RQl<pN|_c;{PFvvVPC&h39v-dm
vT4:P|v[S
xls-
3:,AC:x4~\\$I9rgU,=k6"8NE]?=mZp/ogrvh4x;B)|>H1XwoNX6{Dh_G5?U|lcOu*5hmlkl8yZN\z^N~N)/d|vwik^B%
#Ur#P?,3[KbRk;+_Su6LpLEZazs3.+f|wrz4<3nxYf
EiYRj oeS2rcS1Fj1KY<G1@.8R=FX[J
S89qs;EDNNg1HfLID\$;IT=RIDIw1~+wDc:29lAfY]Cy)Qxn\^Vf89YvKW8/>v([]:
0.'d)[]:3
N8g)Hoc=TM9gI1YfP-+}?\$\6Ik+-
>wc7rnR8>Rw!:%#n;`[vX1};u#NvIac7WYHZfO'.^_7cAoYELIGwg\gV4VdLHQ
_n;q'Yb5jLG,>z?IJN:&mvSb/YNxbwbfzJF9qV <6_V;|cB1H85GF-^#N2,XqC:b|5\{f9pnLY}mG[[]Cu;g
_O
>A?uWlmb+^eQ3MJk"9.O1,~}G&Rxc#/u/@S*2MeI[/uXm|d
S\$hdr
^badOhp:
#|oH,zFFG:Y6p=v#,Zl_/|@_/_C_SXXs/_@ |@?TIENDB`
<!--
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~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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~ limitations under the License.
-->
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>

```
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1"></meta>
<title>Role Permissions - User Guide</title>
<link href="../../admin/css/documentation.css" rel="stylesheet" type="text/css" media="all" />
</head>

<body style="font-family: Times New Roman,Times,serif; font-size: 12pt;">

<h1>Role Permissions</h1>

<p><strong>Note :</strong> This document may refer to Carbon components which are not used in your currently
running
Carbon instance. So please consider permissions only on Carbon components that you currently have.</p>

<ol>
<li>Login to admin console</li>

<p>A Role must have this permission to log into the admin console. Without logging into the console,
you can only have following facilities. If your Carbon instance doesn't contain any of the
following functionalities, you won't have permissions to perform anything when you are not logged in.
</p>
<ul>
<li>View a list of services.</li>
<li>Access WSDL11 and WSDL12 of those services.</li>
<li>Use following tools.<br/>
- WSDL2Java, Java2WSDL, WSDL Converter, Try It, Service Validator, Module Validator</li>
</ul>
<br/>

<li>Manage system configuration</li>

<p>A Role must have this permission to use following functionalities.</p>
<ul>
<li>Throttling</li>
<li>Caching</li>
<li>Reliable Messaging</li>
<li>Operation Management</li>
<li>Governance</li>
<li>Scheduled Tasks</li>
<li>Module Management</li>
<li>Transport Management</li>
<li>JavaScript Services</li>
<li>Eventing</li>
<li>Logging</li>
<li>XKMS configuring</li>
<li>Data Service</li>
<li>Bam</li>
<li>Configure Synapse</li>

```

- Identity
- Registry- Access to Resource Browser
- Manage properties
- Manage Activities
- Manage Association
- Resource Search
- Registry Info
- Registry Profiles

-
- Governance- WSDL import
- Gadget Source
- Life cycles
- Service Addition

Manage security

<p>A Role must have this permission to use following functionalities.</p>

- Security
- Manage Profiles
- STS
- Claim Management

Upload services

<p>A Role must have this permission to upload following types of services.</p>

- JAR Services
- AAR Services
- POJO Services
- JAXWS Services
- EJB Services
- Axis1 Services
- BPEL Processes

Manage services

<p>A Role must have this permission to use following functionalities.</p>

All kinds of Axis services (JAR, AAR, POJO, JAXWS, EJB, Axis1)

Proxy Services

Modules

Cluster Management

Manage mediation

<p>A Role must have this permission to use all kinds of mediation functionalities.</p>

Sequences

Mediation

Local Entry

Monitor system

<p>A Role must have this permission to use monitoring capabilities.</p>

System Statistics

Logging

Mediation Statistics

Mediation Tracer

</body>

</html>

<!--

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-->

```
<% @page import="org.apache.axis2.context.ConfigurationContext"%>
<% @page import="org.wso2.carbon.CarbonConstants" %>
<% @page import="org.wso2.carbon.ui.CarbonUIMessage"%>
<% @page import="org.wso2.carbon.ui.CarbonUIUtil"%>
<% @page import="org.wso2.carbon.user.mgt.ui.UserAdminClient"%>
<% @page import="org.wso2.carbon.utils.ServerConstants"%>
<% @ page import="java.text.MessageFormat" %>
<% @ page import="java.util.ResourceBundle" %>
<% @page import="org.wso2.carbon.ui.util.CharacterEncoder"%>
```

```
<%
```

```
String BUNDLE = "org.wso2.carbon.userstore.ui.i18n.Resources";
ResourceBundle resourceBundle = ResourceBundle.getBundle(BUNDLE, request.getLocale());
```

```
String forwardTo = "role-mgt.jsp?ordinal=1";
String roleName = request.getParameter("roleName");
```

```
if(request.getParameter("prevPage")!=null && request.getParameter("prevUser")!=null){
    String prevPage = request.getParameter("prevPage");
    String prevUser = request.getParameter("prevUser");
    String prevPageNumber = request.getParameter("prevPageNumber");
    if("view".equals(prevPage)){
        forwardTo = "../user/view-roles.jsp?username="+prevUser + "&pageNumber=" + prevPageNumber;
    }else if("edit".equals(prevPage)){
        forwardTo = "../user/edit-user-roles.jsp?username="+prevUser + "&pageNumber=" + prevPageNumber ;
    }
}
```

```
try {
    String[] selectedPermissions = request.getParameterValues("selectedPermissions");
    String cookie = (String)session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
    String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
    ConfigurationContext configContext =
        (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
    UserAdminClient client = new UserAdminClient(cookie, backendServerURL, configContext);
    String message = MessageFormat.format(resourceBundle.getString("role.update"), roleName);
    CarbonUIMessage.sendCarbonUIMessage(message, CarbonUIMessage.INFO, request);
```



```

// if("external".equals(userType)){
//     proxy.updateSystemPermissionsOfExternalRole(roleBeanEditPermission.getRoleName(),
//         roleBeanEditPermission.getSelectedPermissions());
//     forwardTo = "../userstore/ex-role-mgt.jsp?ordinal=1";
// }else if("special".equals(userType)){
//     proxy.updateSystemPermissionsOfSpecialInternalRole(roleBeanEditPermission.getRoleName(),
//         roleBeanEditPermission.getSelectedPermissions());
//     forwardTo = "../userstore/ex-role-mgt.jsp?ordinal=1";
// }else{
//     client.setRoleUIPermission(roleName, selectedPermissions);
//     //forwardTo = "role-mgt.jsp?ordinal=1";
// }

```

```

} catch(InstantiationException e){
    CarbonUIMessage.sendCarbonUIMessage("Your session has timed out. Please try again.",
        CarbonUIMessage.ERROR, request);
    //forwardTo = "role-mgt.jsp?ordinal=1";
} catch (Exception e) {
    String message = MessageFormat.format(resourceBundle.getString("role.cannot.update"),
        CharacterEncoder.getSafeText(roleName), e.getMessage());

```

%>

```

<script type="text/javascript">
    jQuery(document).ready(function () {
        CARBON.showErrorDialog('<%=message%>', function () {
            location.href = "role-mgt.jsp";
        });
    });
</script>
<%
}
%>

```

```

<script type="text/javascript">
    function forward() {
        location.href = "<%=forwardTo%>";
    }
</script>

```

```

<script type="text/javascript">
    forward();
</script>

```

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~ "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
~ KIND, either express or implied. See the License for the
~ specific language governing permissions and limitations
~ under the License.
-->
<% @page import="org.wso2.carbon.user.mgt.ui.UserAdminUIConstants"%>
<% @page import="org.wso2.carbon.user.mgt.stub.types.carbon.FlaggedName"%>
<% @page import="org.wso2.carbon.ui.util.CharacterEncoder"%>
<% @ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<% @ taglib uri="http://wso2.org/projects/carbon/taglibs/carbontags.jar" prefix="carbon" %>
<% @page import="org.apache.axis2.context.ConfigurationContext"%>
<% @page import="org.wso2.carbon.CarbonConstants"%>
<% @page import="org.wso2.carbon.ui.CarbonUIMessage"%>
<% @page import="org.wso2.carbon.ui.CarbonUIUtil"%>
<% @page import="org.wso2.carbon.ui.util.CharacterEncoder"%>
<% @page import="org.wso2.carbon.user.mgt.ui.UserAdminClient"%>
<% @page import="org.wso2.carbon.utils.ServerConstants"%>
<% @page import="javax.servlet.jsp.JspWriter"%>
<% @page import="java.io.IOException"%>
<% @ page import="org.wso2.carbon.user.mgt.stub.types.carbon.UIPermissionNode" %>
<% @ page import="java.util.ResourceBundle" %>
<% @ page import="java.text.MessageFormat" %>

<script type="text/javascript" src="../admin/js/main.js"></script>

<link rel="stylesheet" type="text/css" href="../yui/build/treeview/assets/skins/sam/treeview.css" />
<script type="text/javascript" src="js/yuiloader-min.js"></script>
<script type="text/javascript" src="js/event-min.js"></script>
<script type="text/javascript" src="js/dom-min.js"></script>
<script type="text/javascript" src="js/logger-min.js"></script>
<!--script type="text/javascript" src="http://yui.yahooapis.com/2.7.0/build/treeview/treeview-min.js"></script> this
does not work. Only the debug version works -->
<script type="text/javascript" src="js/treeview-debug.js"></script>
<script type="text/javascript" src="js/element-min.js"></script>
<style type="text/css">
.ygtvcheck0 { background: url(images/check0.gif) 0 0 no-repeat; width:16px; cursor:pointer }
.ygtvcheck1 { background: url(images/check1.gif) 0 0 no-repeat; width:16px; cursor:pointer }
.ygtvcheck2 { background: url(images/check2.gif) 0 0 no-repeat; width:16px; cursor:pointer }
.ygtvlabel{
    color:#477ea5;
}
#expandcontractdiv{

```

```

background-color:#ededed;
padding:5px;
}
</style>

```

```

<%!
private void printNodesOfTree(UIPermissionNode parentNode, String parentNodeName,
                             int count, JspWriter out) throws IOException{
    if(parentNode == null){
        return;
    }
    try{
        UIPermissionNode[] children = parentNode.getNodeList();
        String displayName = parentNode.getDisplayName();
        String path = parentNode.getResourcePath();
        String thisNodeName = "tempNode" + count;
        out.write("var " + thisNodeName + " = new YAHOO.widget.TaskNode({ label:\""
            + displayName + "\",labelData:\"" + path + "\"}, " + parentNodeName + ", true, "
            + parentNode.getSelected() + ");");
        if(children != null){
            for (UIPermissionNode child : children) {
                count++;
                printNodesOfTree(child, thisNodeName, count, out);
            }
        }
    }catch(IOException e){
        throw e;
    }
}
%>

<%
String BUNDLE = "org.wso2.carbon.userstore.ui.i18n.Resources";
ResourceBundle resourceBundle = ResourceBundle.getBundle(BUNDLE, request.getLocale());

String prevPage = CharacterEncoder.getSafeText(request.getParameter("prevPage"));
String prevUser = CharacterEncoder.getSafeText(request.getParameter("prevUser"));
String prevPageNumber = CharacterEncoder.getSafeText(request.getParameter("prevPageNumber"));

UIPermissionNode rootNode = null;
String roleName = CharacterEncoder.getSafeText(request.getParameter("roleName"));

try {
    String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE);
    String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
    ConfigurationContext configContext =

```

```

        (ConfigurationContext)
config.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
    UserAdminClient client = new UserAdminClient(cookie, backendServerURL, configContext);
    rootNode = client.getRolePermissions(roleName);
} catch (Exception e) {
    String message = MessageFormat.format(resourceBundle.getString("error.while.loading.ui.permission"),
        e.getMessage());
%>
<script type="text/javascript">
    jQuery(document).ready(function () {
        CARBON.showErrorDialog('<%=message%>', function () {
            location.href = "role-mgt.jsp";
        });
    });
</script>
<%
}
%>

```

```
<fmt:bundle basename="org.wso2.carbon.userstore.ui.i18n.Resources">
```

```
<carbon:breadcrumb label="add.remove.permissions"
    resourceBundle="org.wso2.carbon.userstore.ui.i18n.Resources"
    topPage="false" request="<%=request%>" />
```

```
<div id="middle">
```

```
<h2><fmt:message key="permissions.of.the.role"/> <%=roleName%></h2>
```

```
<div id="workArea">
```

```
<div class="yui-skin-sam">
```

```
<!-- markup for expand/contract links -->
```

```
<div id="expandcontractdiv" style="margin-bottom:10px;">
```

```
<a id="expand" href="#"> Expand all</a>
```

```
<a id="collapse" href="#" style="margin-left:20px">
```

```
Collapse all</a>
```

```
</div>
```

```
<div id="treeDiv1"></div>
```

```
</div>
```

```
<form name="permissionForm" method="post" action="edit-permissions-finish.jsp"
```

```
onsubmit="setFieldsOnSubmit()">
```

```
<span id="permissions"></span>
```

```
<table>
```

```
<tr>
```

```
<td class="buttonRow">
```

```

        <input type="hidden" value="<%=prevUser%>" name="prevUser" />
        <input type="hidden" value="<%=prevPage%>" name="prevPage" />
        <input type="hidden" value="<%=roleName%>" name="roleName" />
        <input type="hidden" value="<%=prevPageNumber%>" name="prevPageNumber" />
        <input class="button" type="submit" value="<fmt:message key="update"/>"/>
        <input class="button" type="button" value="<fmt:message key="cancel"/>"
onclick="history.back()"/>
    </td>
</tr>
</table>
</form>
</div>
</div>

```

```
<script type="text/javascript" src="js/TaskNode.js"></script>
```

```
<script type="text/javascript">
```

```

var tree;
var nodes = [];
var nodeIndex;

function treeInit() {
    buildPermissionTaskNodeTree();
}

//handler for expanding all nodes
YAHOO.util.Event.on("expand", "click", function(e) {
    tree.expandAll();
    YAHOO.util.Event.preventDefault(e);
});

//handler for collapsing all nodes
YAHOO.util.Event.on("collapse", "click", function(e) {
    tree.collapseAll();
    YAHOO.util.Event.preventDefault(e);
});

//handler for checking all nodes
YAHOO.util.Event.on("check", "click", function(e) {
    checkAll();
    YAHOO.util.Event.preventDefault(e);
});

//handler for unchecking all nodes
YAHOO.util.Event.on("uncheck", "click", function(e) {
    uncheckAll();

```

```
YAHOO.util.Event.preventDefault(e);
});
```

```
YAHOO.util.Event.on("getchecked", "click", function(e) {
    YAHOO.util.Event.preventDefault(e);
});
```

```
function buildPermissionTaskNodeTree() {
```

```
    //instantiate the tree:
    tree = new YAHOO.widget.TreeView("treeDiv1");
    tree.checked = true;
```

```
<% printNodesOfTree(rootNode, "tree.getRoot()", 0, out); %>
```

```
    // Expand and collapse happen prior to the actual expand/collapse,
    // and can be used to cancel the operation
    tree.subscribe("expand", function(node) { // return false to cancel the expand
    });
```

```
    tree.subscribe("collapse", function(node) { });
```

```
    // Trees with TextNodes will fire an event for when the label is clicked:
    tree.subscribe("labelClick", function(node) { });
```

```
    // Trees with TaskNodes will fire an event for when a check box is clicked
    tree.subscribe("checkClick", function(node) { });
```

```
    tree.subscribe("clickEvent", function(node) { });
```

```
    //The tree is not created in the DOM until this method is called:
    tree.draw();
```

```
}
```

```
function checkAll() {
    var topNodes = tree.getRoot().children;
    for(var i=0; i<topNodes.length; ++i) {
        topNodes[i].check();
    }
}
```

```
function uncheckAll() {
    var topNodes = tree.getRoot().children;
    for(var i=0; i<topNodes.length; ++i) {
        topNodes[i].uncheck();
    }
}
```

```

    }
}

// Gets the labels of all of the fully checked nodes
// Could be updated to only return checked leaf nodes by evaluating
// the children collection first.
function getCheckedNodes(nodes) {
    nodes = nodes || tree.getRoot().children;
    checkedNodes = [];
    for(var i=0, l=nodes.length; i<l; i=i+1) {
        var n = nodes[i];
        //if (n.checkState > 0) { // if we were interested in the nodes that have some but not all children checked
        if (n.checkState === 2) {
            checkedNodes.push(n.data.labelData); // just using label for simplicity
        }

        if (n.hasChildren()) {
            checkedNodes = checkedNodes.concat(getCheckedNodes(n.children));
        }
    }

    return checkedNodes;
}

```

```

YAHOO.util.Event.onDOMReady(treeInit);

```

```

function setFieldsOnSubmit(){
    var checkedNodes = getCheckedNodes();
    for(var i=0, l=checkedNodes.length; i<l; i=i+1) {
        var n = checkedNodes[i];
        var element = document.createElement("input");
        element.setAttribute("type", "hidden");
        element.setAttribute("name", "selectedPermissions");
        element.setAttribute("value", n);
        var span = document.getElementById("permissions");
        span.appendChild(element);
    }
    return true;
}

```

```

</script>

```

```

</fmt:bundle>

```

1.916 org.wso2.carbon.utils 4.2.0

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```
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 */
```

```
package org.wso2.carbon.utils.component.xml.builder;
```

```
import org.apache.axiom.om.OMElement;
import org.wso2.carbon.CarbonException;
import org.wso2.carbon.utils.component.xml.config.ComponentConfig;
import org.wso2.carbon.utils.component.xml.config.ManagementPermission;
```

```
import javax.xml.namespace.QName;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
```

```
public class ManagementPermissionsBuilder extends ComponentConfigBuilder {
```

```
    public static final String LOCALNAME_MGT_PERMISSIONS = "ManagementPermissions";
    public static final String LOCALNAME_MGT_PERMISSION = "ManagementPermission";
    public static final String LOCALNAME_DISPLAY_NAME = "DisplayName";
    public static final String LOCALNAME_RESOURCE_ID = "ResourceId";
```

```
    public ComponentConfig[] build(OMElement omElement) throws CarbonException {
        List<ManagementPermission> permissionList = new ArrayList<ManagementPermission>();
        for (Iterator iterator = omElement.getChildrenWithName(new QName(NS_WSO2CARBON,
            LOCALNAME_MGT_PERMISSION)); iterator.hasNext(); ) {
            OMElement configElement = (OMElement) iterator.next();
```

```
            // display name
            OMElement displayNameElement = configElement.getFirstChildWithName(new QName(
                NS_WSO2CARBON, LOCALNAME_DISPLAY_NAME));
```



```

String name = null;
if (displayNameElement != null) {
    name = displayNameElement.getText().trim();
}

if (name == null) {
    throw new CarbonException("Mandatory attribute DisplayName "
        + "does not exist or is empty in the component.xml");
}

// name element
OMElement resourceIdElement = configElement.getFirstChildWithName(new QName(
    NS_WSO2CARBON, LOCALNAME_RESOURCE_ID));
String resourceId = null;
if (resourceIdElement != null) {
    resourceId = resourceIdElement.getText().trim();
}

if (resourceId == null) {
    throw new CarbonException("Mandatory attribute EJBAApplicationServer/Name entry "
        + "does not exist or is empty in the component.xml");
}

ManagementPermission uiPermission = new ManagementPermission(name, resourceId);

permissionList.add(uiPermission);
}

if (permissionList.size() == 0) {
    return null;
} else {
    ManagementPermission[] uiPermissions = new ManagementPermission[permissionList.size()];
    return permissionList.toArray(uiPermissions);
}
}

public String getLocalNameOfComponentConfigElement() {
    return LOCALNAME_MGT_PERMISSIONS;
}
}

```

/*

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```
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*/
package org.wso2.carbon.utils.component.xml.config;
```

```
public class ManagementPermission implements ComponentConfig {

    private String displayName;
    private String resourceId;

    public ManagementPermission(String displayName, String resourceId) {
        super();
        this.displayName = displayName;
        this.resourceId = resourceId;
    }

    public String getDisplayName() {
        return displayName;
    }

    public String getResourceId() {
        return resourceId;
    }

    public void setDisplayName(String displayName) {
        this.displayName = displayName;
    }

    public void setResourceId(String resourceId) {
        this.resourceId = resourceId;
    }

}
```

1.917 org.wso2.carbon.viewflows 4.2.0

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1.918 org.wso2.carbon.viewflows.stub 4.2.0

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1.919 org.wso2.carbon.viewflows.ui 4.2.0

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1.927 org.wso2.charon.utils 2.0.5

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1.928 org.wso2.esb.samples 4.8.1

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*

*/

package org.wso2.esb.samples.rest;

import org.apache.axiom.om.OMElement;

```

import org.apache.axiom.om.util.AXIOMUtil;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.net.URL;
import java.net.URLConnection;

import static org.testng.Assert.assertTrue;

public class Sample800Test extends ESBIntegrationTestCase {

    @Test(groups = {"wso2.esb"}, description = "Sample 800: Introduction to REST API")
    public void testBasicAPIMediation() throws Exception {
        loadSampleESBConfiguration(800);
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
        String response = doGET(new URL(getMainSequenceURL() + "/stockquote/view/WSO2"));
        System.out.println("Received payload: " + response);
        OMElement responseOM = AXIOMUtil.stringToOM(response);
        assertTrue(responseOM.toString().contains("WSO2"));
    }

    private String doGET(URL url) throws IOException {
        URLConnection conn = url.openConnection ();
        BufferedReader rd = new BufferedReader(new InputStreamReader(conn.getInputStream()));
        StringBuffer sb = new StringBuffer();
        String line;
        while ((line = rd.readLine()) != null) {
            sb.append(line);
        }
        rd.close();
        return sb.toString();
    }
}
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```

```
package org.wso2.esb.samples.mediation;
```

```

import org.apache.axiom.om.OMElement;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

```

```
import static org.testng.Assert.assertTrue;
```

```
/**
```

```
* Sample 17: Introduction to Payload-factory mediator
```

```
*/
```

```
public class Sample17Test extends ESBIntegrationTestCase {
    private StockQuoteClient axis2Client;
```

```

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
    }

```

```
@Test(groups = {"wso2.esb"}, description = "Sample 17: Introduction to Payload-factory mediator")
```

```

public void testXQueryMediation() throws Exception {
    loadSampleESBConfiguration(17);
    launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);

```

```

    OMElement response = axis2Client.sendCustomQuoteRequest(
        "http://localhost:8280",
        "http://localhost:9000/services/SimpleStockQuoteService",
        "WSO2");
    assertTrue(response.toString().contains("WSO2"));
}

```

```
@Override
```

```

protected void cleanup() {
    super.cleanup();
    axis2Client.destroy();
}
}

```

```

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```

```
package org.wso2.esb.samples.mediation;
```

```

import org.apache.axiom.om.OMElement;
import org.apache.axis2.AxisFault;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

```

```

import static org.testng.Assert.assertTrue;
import static org.testng.Assert.fail;

```

```

/**
 * Sample 4: Introduction to error handling.
 */

```

```

public class Sample5Test extends ESBIntegrationTestCase {
    private StockQuoteClient axis2Client;

```

```

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        loadSampleESBConfiguration(5);
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

```

```

    @Test(groups = {"wso2.esb"}, description = "Sample 5: Creating SOAP fault messages and changing the direction
of a message")

```

```

    public void testSOAPFaultCreation() throws AxisFault {
        OMElement response;
        try {
            response = axis2Client.sendSimpleStockQuoteRequest(

```

```

        "http://localhost:8280",
        "http://localhost:9000/services/SimpleStockQuoteService",
        "MSFT");
    fail("This query must throw an exception.");
} catch (AxisFault expected) {
    log.info("Test passed with symbol MSFT - Fault Message : " + expected.getMessage());
}

try {
    response = axis2Client.sendSimpleStockQuoteRequest(
        "http://localhost:8280",
        "http://localhost:9000/services/SimpleStockQuoteService",
        "SUN");
    fail("This query must throw an exception.");
} catch (AxisFault expected) {
    log.info("Test passed with symbol SUN - Fault Message : " + expected.getMessage());
}

}

@Override
protected void cleanup() {
    super.cleanup();
    axis2Client.destroy();
}
}
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 */

package org.wso2.esb.samples.mediation;

import org.apache.axiom.om.OMElement;
import org.testng.annotations.AfterMethod;

```



```

import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import static org.testng.Assert.assertTrue;

/**
 * Sample 8: Introduction to static and dynamic registry resources, and using XSLT transformations
 */
public class Sample8Test extends ESBIntegrationTestCase {
    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 8: Introduction to static and dynamic registry resources, and
using XSLT transformations")
    public void testXSLTTransformation() throws Exception {
        loadSampleESBConfiguration(8);
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);

        OMElement response = axis2Client.sendCustomQuoteRequest(
            "http://localhost:8280",
            "http://localhost:9000/services/SimpleStockQuoteService",
            "WSO2");
        assertTrue(response.toString().contains("WSO2"));
    }

    @Override
    protected void cleanup() {
        super.cleanup();
        axis2Client.destroy();
    }
}
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*/

```

```
package org.wso2.esb.samples.mediation;
```

```

import org.apache.axiom.om.OMElement;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

```

```
import static org.testng.Assert.assertTrue;
```

```
/**
```

```

* Sample 1: Simple content based routing (CBR) of messages
*/

```

```
public class Sample1Test extends ESBIntegrationTestCase {
    private StockQuoteClient axis2Client;
```

```

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
    }

```

```
@Test(groups = {"wso2.esb"}, description = "Sample 1: Simple content based routing (CBR) of messages.")
```

```

public void testCBRMediation() throws Exception {
    loadSampleESBConfiguration(1);
    launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);

```

```

    OMElement response = axis2Client.sendSimpleStockQuoteRequest(
        "http://localhost:8280/services/StockQuote",
        null,
        "WSO2");
    assertTrue(response.toString().contains("WSO2"));
}

```

```
@Override
```

```

protected void cleanup() {
    super.cleanup();
    axis2Client.destroy();
}
}

```

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*

*/

```
package org.wso2.esb.samples.mediation;
```

```
import org.apache.axiom.om.OMElement;
```

```
import org.testng.annotations.Test;
```

```
import org.wso2.esb.integration.ESBIntegrationTestCase;
```

```
import org.wso2.esb.integration.axis2.SampleAxis2Server;
```

```
import org.wso2.esb.integration.axis2.StockQuoteClient;
```

```
import static org.testng.Assert.assertTrue;
```

```
public class Sample15Test extends ESBIntegrationTestCase {
```

```
    private StockQuoteClient axis2Client;
```

```
    public void init() throws Exception {
```

```
        axis2Client = new StockQuoteClient();
```

```
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
```

```
    }
```

```
    @Test(groups = {"wso2.esb"}, description = "Sample 15: Message Enrichment")
```

```
    public void testCacheMediator() throws Exception {
```

```
        loadSampleESBConfiguration(15);
```

```
        OMElement response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(),  
            null, "WSO2");
```

```
        // The sample modifies the symbol of the request to MSFT
```

```
        assertTrue(response.toString().contains("MSFT"));
```

```
    }
```

```

@Override
protected void cleanup() {
    super.cleanup();
    axis2Client.destroy();
}
}
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import org.apache.axiom.om.OMElement;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import static org.testng.Assert.assertTrue;

/**
 * Sample 3: Local Registry entry definitions, reusable endpoints and sequences.
 */
public class Sample3Test extends ESBIntegrationTestCase {
    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 3: Local Registry entry definitions, reusable endpoints and sequences")

```

```

public void testLocalRegistryBasedMediation() throws Exception {
    loadSampleESBConfiguration(3);
    launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);

    OMElement response = axis2Client.sendSimpleStockQuoteRequest(
        "http://localhost:8280",
        "http://localhost:9000/services/SimpleStockQuoteService",
        "WSO2");
    assertTrue(response.toString().contains("WSO2"));
}

@Override
protected void cleanup() {
    super.cleanup();
    axis2Client.destroy();
}
}
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 */

package org.wso2.esb.samples.mediation;

import org.apache.axiom.om.OMElement;
import org.apache.axis2.AxisFault;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import static org.testng.Assert.assertTrue;
import static org.testng.Assert.fail;

/**

```

```

* Sample 4: Introduction to error handling.
*/
public class Sample7Test extends ESBIntegrationTestCase {
    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        loadSampleESBConfiguration(7);
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 7: Introduction to local Registry entries and using Schema
validation")
    public void testSchemaValidation() throws AxisFault {
        OMElement response;
        try {
            response = axis2Client.sendSimpleStockQuoteRequest(
                "http://localhost:8280",
                "http://localhost:9000/services/SimpleStockQuoteService",
                "IBM");
            fail("This query must throw an exception.");
        } catch (AxisFault expected) {
            log.info("Schema Validation Failed as expected - Fault Message : " + expected.getMessage() );
        }
    }

    @Override
    protected void cleanup() {
        super.cleanup();
        axis2Client.destroy();
    }
}
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```

```

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package org.wso2.esb.samples.mediation;

import org.apache.axiom.om.OMElement;
import org.apache.axis2.AxisFault;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
import org.wso2.carbon.Axis2ModuleNotFound;
import org.wso2.carbon.integration.core.utils.Axis2Client;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import static org.testng.Assert.assertTrue;
import static org.testng.Assert.fail;

/**
 * Sample 4: Introduction to error handling.
 */
public class Sample4Test extends ESBIntegrationTestCase {
    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        loadSampleESBConfiguration(4);
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 4: Introduction to error handling.")
    public void testErrorHandling() throws AxisFault {
        OMElement response;
        try {
            response = axis2Client.sendSimpleStockQuoteRequest(
                "http://localhost:8280",
                "http://localhost:9000/services/SimpleStockQuoteService",
                "MSFT");
            fail("This query must throw an exception.");
        } catch (AxisFault expected) {
            log.info("Test passed with symbol MSFT");
        }

        try {
            response = axis2Client.sendSimpleStockQuoteRequest(
                "http://localhost:8280",
                "http://localhost:9000/services/SimpleStockQuoteService",

```

```

        "SUN");
        fail("This query must throw an exception.");
    } catch (AxisFault expected) {
        log.info("Test passed with symbol SUN");
    }

    response = axis2Client.sendSimpleStockQuoteRequest(
        "http://localhost:8280",
        "http://localhost:9000/services/SimpleStockQuoteService",
        "IBM");
    assertTrue(response.toString().contains("IBM"));
}

@Override
protected void cleanup() {
    super.cleanup();
    axis2Client.destroy();
}
}
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 */

package org.wso2.esb.samples.mediation;

import org.apache.axiom.om.OMElement;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import static org.testng.Assert.assertTrue;

```



```

/**
 * Sample 0: Introduction to ESB
 */
public class Sample0Test extends ESBIntegrationTestCase {
    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 0: Introduction to ESB")
    public void testBasicMediation() throws Exception {
        loadSampleESBConfiguration(0);
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);

        OMElement response = axis2Client.sendSimpleStockQuoteRequest(
            "http://localhost:8280/",
            "http://localhost:9000/services/SimpleStockQuoteService",
            "WSO2");
        assertTrue(response.toString().contains("WSO2"));
    }

    @Override
    protected void cleanup() {
        super.cleanup();
        axis2Client.destroy();
    }
}

```

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- *
- */

```

package org.wso2.esb.samples.advanced;

import org.apache.axiom.om.OMElement;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import static org.testng.Assert.assertTrue;

public class Sample352Test extends ESBIntegrationTestCase{

    protected Log log = LogFactory.getLog(this.getClass());

    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 352: Accessing Synapse message context API methods
using scripting language")
    public void testProxyService() throws Exception {

        loadSampleESBConfiguration(352);

        OMElement response = axis2Client.sendCustomQuoteRequest("http://localhost:8280/",
            "http://localhost:9000/services/SimpleStockQuoteService", "WSO2");

        assertTrue(response.toString().contains("99.9"));
        log.info("Response : " + response.toString());
    }
}
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*
*/

```

```
package org.wso2.esb.samples.advanced;
```

```

import org.apache.axiom.om.OMElement;
import org.apache.axis2.AxisFault;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

```

```

import static org.testng.Assert.assertTrue;
import static org.testng.Assert.fail;

```

```
public class Sample371Test extends ESBIntegrationTestCase {
```

```
    private StockQuoteClient axis2Client;
```

```

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

```

```
@Test(groups = {"wso2.esb"}, description = "Sample 371: Restricting requests based on policies")
```

```

    public void testTimeBasedThrottle() throws Exception {
        loadSampleESBConfiguration(371);

```

```

        OMElement response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(),
            null, "WSO2");
        assertTrue(response.toString().contains("WSO2"));

```

```

        response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(),
            null, "WSO2");
        assertTrue(response.toString().contains("WSO2"));

```

```

        response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(),
            null, "WSO2");
        assertTrue(response.toString().contains("WSO2"));

```

```

        response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(),
            null, "WSO2");
        assertTrue(response.toString().contains("WSO2"));

```

```

try {
    response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(),
        null, "WSO2");
    fail("Message didn't get throttled - Response received: " + response);
} catch (AxisFault axisFault) {
    log.info("AxisFault received as expected", axisFault);
    assertTrue(axisFault.getMessage().contains("**Access Denied**"));
}
}

@Override
protected void cleanup() {
    super.cleanup();
    axis2Client.destroy();
}
}
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 *
 */

```

package org.wso2.esb.samples.advanced;

import org.apache.axiom.om.OMElement;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import javax.xml.namespace.QName;

import static org.testng.Assert.assertTrue;

```

```

public class Sample420Test extends ESBIntegrationTestCase {

    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 420: Simple cache implemented on ESB for the actual
service")
    public void testCacheMediator() throws Exception {
        loadSampleESBConfiguration(420);

        OMElement response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(),
            null, "WSO2");
        assertTrue(response.toString().contains("WSO2"));

        OMElement resultElement = response.getFirstElement();
        OMElement lastElement = resultElement.getFirstChildWithName(new QName("http://services.samples/xsd",
"last"));
        String value = lastElement.getText();

        response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(), null, "WSO2");
        assertTrue(response.toString().contains("last>" + value + "<"));
        response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(), null, "WSO2");
        assertTrue(response.toString().contains("last>" + value + "<"));
    }

    @Override
    protected void cleanup() {
        super.cleanup();
        axis2Client.destroy();
    }
}
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*
*/

```
package org.wso2.esb.samples.advanced;
```

```
import org.apache.axiom.om.OMElement;  
import org.testng.annotations.Test;  
import org.wso2.esb.integration.ESBIntegrationTestCase;  
import org.wso2.esb.integration.axis2.SampleAxis2Server;  
import org.wso2.esb.integration.axis2.StockQuoteClient;
```

```
import static org.testng.Assert.assertTrue;
```

```
public class Sample400Test extends ESBIntegrationTestCase {
```

```
    private StockQuoteClient axis2Client;
```

```
    public void init() throws Exception {  
        axis2Client = new StockQuoteClient();  
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);  
    }  
}
```

```
@Test(groups = {"wso2.esb"}, description = "Sample 400: Message splitting and aggregating the responses")
```

```
public void testSplitAggregateMediation() throws Exception {  
    loadSampleESBConfiguration(400);
```

```
        OMElement response = axis2Client.sendMultipleQuoteRequest(getProxyServiceURL("SplitAggregateProxy",  
false),  
        null, "WSO2", 3);  
        assertTrue(response.toString().contains("WSO2"));  
    }  
}
```

```
@Override
```

```
protected void cleanup() {  
    super.cleanup();  
    axis2Client.destroy();  
}  
}
```

```
/*
```

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*/

```
package org.wso2.esb.samples.advanced;
```

```
import org.apache.axiom.om.OMElement;  
import org.testng.annotations.Test;  
import org.wso2.esb.integration.ESBIntegrationTestCase;  
import org.wso2.esb.integration.axis2.SampleAxis2Server;  
import org.wso2.esb.integration.axis2.StockQuoteClient;
```

```
import static org.testng.Assert.assertTrue;
```

```
public class Sample450Test extends ESBIntegrationTestCase {
```

```
    private StockQuoteClient axis2Client;
```

```
    public void init() throws Exception {  
        axis2Client = new StockQuoteClient();  
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);  
    }  
}
```

```
@Test(groups = {"wso2.esb"}, description = "Sample 450: Introduction to the URL Rewrite mediator")
```

```
public void testSimpleURLRewrite() throws Exception {  
    loadSampleESBConfiguration(450);
```

```
    OMElement response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(),  
        "http://localhost:9000/soap/SimpleStockQuoteService", "WSO2");  
    assertTrue(response.toString().contains("WSO2"));  
}
```

```
@Override
```

```
protected void cleanup() {  
    super.cleanup();  
    axis2Client.destroy();  
}
```

```
}
```

```
/*
```

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*
*/

```
package org.wso2.esb.samples.advanced;
```

```
import org.apache.axiom.om.OMElement;  
import org.testng.annotations.Test;  
import org.wso2.esb.integration.ESBIntegrationTestCase;  
import org.wso2.esb.integration.axis2.SampleAxis2Server;  
import org.wso2.esb.integration.axis2.StockQuoteClient;
```

```
import static org.testng.Assert.assertTrue;
```

```
public class Sample600Test extends ESBIntegrationTestCase {
```

```
    private StockQuoteClient axis2Client;
```

```
    public void init() throws Exception {  
        axis2Client = new StockQuoteClient();  
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);  
    }
```

```
    @Test(groups = {"wso2.esb"}, description = "Sample 600: Rule mediator as a Filter - Simple rule based routing  
using an in-lined rule script")
```

```
    public void testSimpleURLRewrite() throws Exception {  
        loadSampleESBConfiguration(600);
```

```
        OMElement response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(),  
            null, "IBM");  
        assertTrue(response.toString().contains("IBM"));
```

```
        axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(), null, "WSO2");  
    }
```



```

@Override
protected void cleanup() {
    super.cleanup();
    axis2Client.destroy();
}
}
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 */

package org.wso2.esb.samples.advanced;

import org.apache.axiom.om.OMElement;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import static org.testng.Assert.assertTrue;

public class Sample452Test extends ESBIntegrationTestCase {

    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 452: Conditional URL Rewriting with Multiple Rules")
    public void testAdvancedURLRewrite() throws Exception {
        loadSampleESBConfiguration(452);

        OMElement response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(),
            "http://test.com/SimpleStockQuoteService", "WSO2");
        assertTrue(response.toString().contains("WSO2"));
    }
}

```

```

    }

    @Override
    protected void cleanup() {
        super.cleanup();
        axis2Client.destroy();
    }
}
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 */

package org.wso2.esb.samples.advanced;

import org.apache.http.HttpResponse;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.http.SimpleHttpClient;

import static org.testng.Assert.assertEquals;
import static org.testng.Assert.assertTrue;

public class Sample440Test extends ESBIntegrationTestCase {

    private SimpleHttpClient httpClient;

    public void init() throws Exception {
        httpClient = new SimpleHttpClient();
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 440: Exposing a SOAP Service Over JSON")
    public void testJSONMediation() throws Exception {
        loadSampleESBConfiguration(440);
    }
}

```

```

String payload = "{\"getQuote\":{\"request\":{\"symbol\":\"WSO2\"}}}\";
HttpResponse response = httpClient.doPost(getProxyServiceURL("JSONProxy", false),
    null, payload, "application/json");
assertEquals(response.getStatusLine().getStatusCode(), 200);
String responsePayload = httpClient.getResponsePayload(response);
log.info("Response received: " + responsePayload);
assertTrue(responsePayload.startsWith("{\"getQuoteResponse\":{\"return\":\"\"}"));
assertTrue(responsePayload.contains("WSO2"));
}
}
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```

package org.wso2.esb.samples.advanced;

import org.apache.axiom.om.OMElement;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import static org.testng.Assert.assertTrue;

public class Sample351Test extends ESBIntegrationTestCase {

    protected Log log = LogFactory.getLog(this.getClass());

    private StockQuoteClient axis2Client;

    public void init() throws Exception {

```

```

axis2Client = new StockQuoteClient();
launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
}

@Test(groups = {"wso2.esb"}, description = "Sample 351: In-line script mediation with JavaScript")
public void testProxyService() throws Exception {

    loadSampleESBConfiguration(351);

    OMElement response = axis2Client.sendCustomQuoteRequest("http://localhost:8280/",
        "http://localhost:9000/services/SimpleStockQuoteService", "WSO2");

    assertTrue(response.toString().contains("WSO2"));
    log.info("Response : " + response.toString());
}

}
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*/

package org.wso2.esb.samples.advanced;

import org.apache.axiom.om.OMElement;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import static org.testng.Assert.assertTrue;

public class Sample430Test extends ESBIntegrationTestCase {

```

```

private StockQuoteClient axis2Client;

public void init() throws Exception {
    axis2Client = new StockQuoteClient();
    launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
}

@Test(groups = {"wso2.esb"}, description = "Sample 430: Simple Callout Mediator for Synchronize web service
invocation")
public void testCallOut() throws Exception {
    loadSampleESBConfiguration(430);

    OMElement response = axis2Client.sendSimpleStockQuoteRequest(getMainSequenceURL(),
        null, "WSO2");
    assertTrue(response.toString().contains("WSO2"));
}

@Override
protected void cleanup() {
    super.cleanup();
    axis2Client.destroy();
}
}
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*/

package org.wso2.esb.samples.advanced;

import org.apache.axiom.om.OMElement;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.testng.annotations.Test;

```

```

import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import static org.testng.Assert.assertTrue;

public class Sample350Test extends ESBIntegrationTestCase{

    protected Log log = LogFactory.getLog(this.getClass());

    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 350: Introduction to the script mediator using js scripts")
    public void testProxyService() throws Exception {

        loadSampleESBConfiguration(350);

        OMElement response = axis2Client.sendCustomQuoteRequest("http://localhost:8280/",
            "http://localhost:9000/services/SimpleStockQuoteService", "WSO2");

        assertTrue(response.toString().contains("WSO2"));
        log.info("Response : " + response.toString());
    }

}
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*/

```

```

package org.wso2.esb.samples.advanced;

import org.apache.axiom.om.OMElement;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import static org.testng.Assert.*;

public class Sample390Test extends ESBIntegrationTestCase {

    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 390: Introduction to the XQuery mediator")
    public void testXQueryMediation() throws Exception {
        loadSampleESBConfiguration(390);

        OMElement response = axis2Client.sendCustomQuoteRequest(getProxyServiceURL("StockQuoteProxy",
false),
        null, "WSO2");
        assertTrue(response.toString().contains("WSO2"));
    }

    @Override
    protected void cleanup() {
        super.cleanup();
        axis2Client.destroy();
    }
}
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```
package org.wso2.esb.samples.advanced;
```

```
import org.apache.axiom.om.OMElement;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;
```

```
import static org.testng.Assert.assertTrue;
```

```
public class Sample380Test extends ESBIntegrationTestCase{
```

```
    private StockQuoteClient axis2Client;
```

```
    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }
```

```
    @Test(groups = {"wso2.esb"}, description = "Sample 380: Writing your own custom mediation in Java")
```

```
    public void testCustomMediation() throws Exception {
        loadSampleESBConfiguration(380);
```

```
        OMElement response = axis2Client.sendSimpleStockQuoteRequest(null,
            "http://localhost:8280", "WSO2");
        assertTrue(response.toString().contains("WSO2"));
    }
```

```
    @Override
```

```
    protected void cleanup() {
        super.cleanup();
        axis2Client.destroy();
    }
```

```
    }
    /*
```

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 *
 */

```
package org.wso2.esb.samples.proxy;

import org.apache.axiom.om.OMElement;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;
import static org.testng.Assert.assertTrue;

public class Sample152Test extends ESBIntegrationTestCase {

    protected Log log = LogFactory.getLog(this.getClass());

    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 152: Switching transports and message format from SOAP
to REST/POX")
    public void testSOAPtoPOXProxyService() throws Exception {

        loadSampleESBConfiguration(152);

        OMElement response =
axis2Client.sendSimpleStockQuoteRequest("https://localhost:8243/services/StockQuoteProxy",
        null, "WSO2");

        assertTrue(response.toString().contains("WSO2"));
        log.info("Response : " + response.toString());
    }
}
```

```

    }

}
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 */

package org.wso2.esb.samples.security;

import org.apache.axiom.om.OMElement;
import org.apache.commons.io.FileUtils;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.jdom.Document;
import org.jdom.Element;
import org.jdom.Namespace;
import org.jdom.input.SAXBuilder;
import org.jdom.output.Format;
import org.jdom.output.XMLOutputter;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import java.io.File;
import java.io.FileWriter;
import java.util.List;

import static org.testng.Assert.assertTrue;

public class Sample153Test extends ESBIntegrationTestCase {

    protected Log log = LogFactory.getLog(this.getClass());

    private StockQuoteClient axis2Client;

```

```

public void init() throws Exception {
    axis2Client = new StockQuoteClient();
    launchBackendAxis2Service(SampleAxis2Server.SECURE_STOCK_QUOTE_SERVICE);
}

@Test(groups = {"wso2.esb"}, description = "Sample 153: Routing Secured Messages Without Processing
Security Headers")
public void testSecurityHeadersPassThrough() throws Exception {

    loadSampleESBConfiguration(153);

    SAXBuilder builder = new SAXBuilder();
    String policyFileDir = "repository" + File.separator + "samples" + File.separator +
        "resources" + File.separator + "policy";

    //Get the original policy file.
    File originalPolicy = new File(policyFileDir + File.separator + "policy_3.xml");

    //Build original policy file for XML parsing.
    Document document = builder.build(originalPolicy);
    Namespace namespace = Namespace.getNamespace("wsp", "http://schemas.xmlsoap.org/ws/2004/09/policy");
    Element rootNode = document.getRootElement();
    Element exactlyOne = rootNode.getChild("ExactlyOne", namespace);
    Element all = exactlyOne.getChild("All", namespace);
    Namespace rampartNamespace = Namespace.getNamespace("ramp", "http://ws.apache.org/rampart/policy");

    //Get the rampartConfig element
    Element rampartConfig = all.getChild("RampartConfig", rampartNamespace);
    Element signatureCrypto = rampartConfig.getChild("signatureCrypto", rampartNamespace);
    List<Element> properties = signatureCrypto.getChild("crypto", rampartNamespace).getChildren();

    //Find for the relevant property values to change.
    for (Element property : properties){
        if ("org.apache.ws.security.crypto.merlin.file".equals(property.getAttribute("name").getValue())){
            //When found, change the relative path to an absolute path
            property.setText(new File(property.getValue().trim()).getAbsolutePath());
            break;
        }
    }

    Element encryptionCypto = rampartConfig.getChild("encryptionCypto", rampartNamespace);
    properties = (encryptionCypto.getChild("crypto", rampartNamespace)).getChildren();

    //Find for the relevant property values to change.
    for (Element property : properties){
        if ("org.apache.ws.security.crypto.merlin.file".equals(property.getAttribute("name").getValue())){
            //When found, change the relative path to an absolute path
            property.setText(new File(property.getValue().trim()).getAbsolutePath());
        }
    }
}

```

```

        break;
    }
}

String tempPolicyName = "temp_policy_3.xml";
XMLOutputter xmlOut = new XMLOutputter();
xmlOut.setFormat(Format.getRawFormat());

//Write the modified XML to temp_policy_3.xml
FileWriter writer = new FileWriter(new File(policyFileDir + File.separator +
tempPolicyName).getAbsolutePath());
xmlOut.output(document, writer);
writer.close();

File tempPolicy = new File(policyFileDir + File.separator + tempPolicyName);
OMElement response =
axis2Client.sendSecuredSimpleStockQuoteRequest(getProxyServiceURL("StockQuoteProxy", false),
    null, "WSO2", tempPolicy.getAbsolutePath());

assertTrue(response.toString().contains("WSO2"));
log.info("Response : " + response.toString());
FileUtils.deleteQuietly(tempPolicy);
}

}
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package org.wso2.esb.samples.security;

import org.apache.axiom.om.OMElement;
import org.apache.commons.logging.Log;

```

```

import org.apache.commons.logging.LogFactory;
import org.jdom.Document;
import org.jdom.Element;
import org.jdom.Namespace;
import org.jdom.input.SAXBuilder;
import org.jdom.output.Format;
import org.jdom.output.XMLOutputter;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;
import org.wso2.esb.integration.axis2.StockQuoteClient;

import java.io.File;
import java.io.FileWriter;
import java.util.List;

import static org.testng.Assert.assertTrue;

public class Sample200Test extends ESBIntegrationTestCase{

    protected Log log = LogFactory.getLog(this.getClass());

    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 200: Using WS-Security with policy attachments for proxy
services")
    public void testSecuredProxyService() throws Exception {

        loadSampleESBConfiguration(200);

        /**
         * When running this test, the StockQuoteClient fails to fails to load files by their relative paths. Therefore we
         need to use
         * absolute paths always. The policy_3.xml file specifies the patch to keystore files as relative values. Since
         this does not work,
         * we make a copy of the policy_3.xml file as temp_policy_3.xml by changing the relative keystore paths to
         absolute paths and
         * use the temp_policy_3.xml file instead of policy_3.xml
         */

        SAXBuilder builder = new SAXBuilder();

        String policyFileDir = "repository" + File.separator + "samples" + File.separator +

```

```

        "resources" + File.separator + "policy";

//Get the original policy file.
File originalPolicy = new File(policyFileDir + File.separator + "policy_3.xml");

//Build original policy file for XML parsing.
Document document = builder.build(originalPolicy);

Namespace namespace = Namespace.getNamespace("wsp", "http://schemas.xmlsoap.org/ws/2004/09/policy");

Element rootNode = document.getRootElement();
Element exactlyOne = rootNode.getChild("ExactlyOne", namespace);
Element all = exactlyOne.getChild("All", namespace);

Namespace rampartNamespace = Namespace.getNamespace("ramp", "http://ws.apache.org/rampart/policy");

//Get the rampartConfig element
Element rampartConfig = all.getChild("RampartConfig", rampartNamespace);

Element signatureCrypto = rampartConfig.getChild("signatureCrypto", rampartNamespace);
List<Element> properties = signatureCrypto.getChild("crypto", rampartNamespace).getChildren();

//Find for the relevant property values to change.
for(Element property : properties){
    if("org.apache.ws.security.crypto.merlin.file".equals(property.getAttribute("name").getValue())){

        //When found, change the relative path to an absolute path
        property.setText(new File(property.getValue().trim()).getAbsolutePath());
        break;
    }
}

Element encryptionCypto = rampartConfig.getChild("encryptionCypto", rampartNamespace);
properties = (encryptionCypto.getChild("crypto", rampartNamespace)).getChildren();

//Find for the relevant property values to change.
for(Element property : properties){
    if("org.apache.ws.security.crypto.merlin.file".equals(property.getAttribute("name").getValue())){

        //When found, change the relative path to an absolute path
        property.setText(new File(property.getValue().trim()).getAbsolutePath());
        break;
    }
}

String tempPolicyName = "temp_policy_3.xml";

XMLOutputter xmlOut = new XMLOutputter();

```

```

xmlOut.setFormat(Format.getRawFormat());

//Write the modified XML to temp_policy_3.xml
FileWriter writer = new FileWriter(new File(policyFileDir + File.separator +
tempPolicyName).getAbsolutePath());
xmlOut.output(document, writer);
writer.close();

File tempPolicy = new File(policyFileDir + File.separator + tempPolicyName);

//Send request and get response. Use the temp_policy_3.xml
OMElement response =
axis2Client.sendSecuredSimpleStockQuoteRequest(getProxyServiceURL("StockQuoteProxy", false),
    null, "WSO2", tempPolicy.getAbsolutePath());

assertTrue(response.toString().contains("WSO2"));
log.info("Response : " + response.toString());

//Delete temp_policy_3.xml
tempPolicy.delete();
}
}
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*/

package org.wso2.esb.samples.templates;

import org.apache.axiom.om.OMElement;
import org.testng.annotations.Test;
import org.wso2.esb.integration.ESBIntegrationTestCase;
import org.wso2.esb.integration.axis2.SampleAxis2Server;

```

```

import org.wso2.esb.integration.axis2.StockQuoteClient;

import static org.testng.Assert.assertTrue;

public class Sample750Test extends ESBIntegrationTestCase {

    private StockQuoteClient axis2Client;

    public void init() throws Exception {
        axis2Client = new StockQuoteClient();
        launchBackendAxis2Service(SampleAxis2Server.SIMPLE_STOCK_QUOTE_SERVICE);
    }

    @Test(groups = {"wso2.esb"}, description = "Sample 750: Stereotyping XSLT Transformations with Templates")
    public void testSequenceTemplates() throws Exception {
        loadSampleESBConfiguration(750);

        OMElement response = axis2Client.sendCustomQuoteRequest(getProxyServiceURL("StockQuoteProxy",
false),
        null, "WSO2");
        assertTrue(response.toString().contains("WSO2"));
    }

    @Override
    protected void cleanup() {
        super.cleanup();
        axis2Client.destroy();
    }
}

```

1.929 org.wso2.esb.styles 4.8.1

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1.931 org.wso2.securevault 1.0.0

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1.932 org.wso2.throttle 3.3.0

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<wsp:Policy xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"  
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"  
  xmlns:throttle="http://www.wso2.org/products/wso2commons/throttle"  
  wsu:Id="WSO2ModuleThrottlingPolicy">  
  <throttle:ModuleThrottleAssertion>  
    <throttle:MaximumConcurrentAccess>10</throttle:MaximumConcurrentAccess>
```

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<wsp:Policy>
  <throttle:ID throttle:type="IP">other</throttle:ID>
  <wsp:Policy>
    <throttle:Control>
      <wsp:Policy>
        <throttle:MaximumCount>10</throttle:MaximumCount>
        <throttle:UnitTime>800000</throttle:UnitTime>
        <throttle:ProhibitTimePeriod wsp:Optional="true">10000</throttle:ProhibitTimePeriod>
      </wsp:Policy>
    </throttle:Control>
  </wsp:Policy>
</wsp:Policy>
</throttle:ModuleThrottleAssertion>
</wsp:Policy>
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<wsp:Policy xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:throttle="http://www.wso2.org/products/wso2commons/throttle"
  wsu:Id="WSO2ServiceThrottlingPolicy">
  <throttle:ServiceThrottleAssertion>
    <throttle:MaximumConcurrentAccess>10</throttle:MaximumConcurrentAccess>
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    <throttle:ID throttle:type="IP">other</throttle:ID>
    <wsp:Policy>
      <throttle:Control>
        <wsp:Policy>
          <throttle:MaximumCount>10</throttle:MaximumCount>
          <throttle:UnitTime>800000</throttle:UnitTime>
          <throttle:ProhibitTimePeriod wsp:Optional="true">10000</throttle:ProhibitTimePeriod>
        </wsp:Policy>
      </throttle:Control>
    </wsp:Policy>
  </wsp:Policy>
</wsp:Policy>

```

```

    </throttle:ServiceThrottleAssertion>
</wsp:Policy>
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  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:throttle="http://www.wso2.org/products/wso2commons/throttle"
  wsu:Id="WSO2MediatorThrottlingPolicy">
  <throttle:MediatorThrottleAssertion>
    <throttle:MaximumConcurrentAccess>10</throttle:MaximumConcurrentAccess>
    <wsp:Policy>
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      <wsp:Policy>
        <throttle:Control>
          <wsp:Policy>
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            <throttle:UnitTime>800000</throttle:UnitTime>
            <throttle:ProhibitTimePeriod wsp:Optional="true">10000</throttle:ProhibitTimePeriod>
          </wsp:Policy>
        </throttle:Control>
      </wsp:Policy>
    </wsp:Policy>
  </throttle:MediatorThrottleAssertion>
</wsp:Policy>
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  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:throttle="http://www.wso2.org/products/wso2commons/throttle"
  wsu:Id="WSO2OperationThrottlingPolicy">
  <throttle:OperationThrottleAssertion>
    <throttle:MaximumConcurrentAccess>10</throttle:MaximumConcurrentAccess>
  <wsp:Policy>
    <throttle:ID throttle:type="IP">other</throttle:ID>
  <wsp:Policy>
    <throttle:Control>
      <wsp:Policy>
        <throttle:MaximumCount>10</throttle:MaximumCount>
        <throttle:UnitTime>800000</throttle:UnitTime>
        <throttle:ProhibitTimePeriod wsp:Optional="true">10000</throttle:ProhibitTimePeriod>
      </wsp:Policy>
    </throttle:Control>
  </wsp:Policy>
</throttle:OperationThrottleAssertion>
</wsp:Policy>
```

1.933 oro 2.0.8

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1.934 osgi.resource.locator 1.0.1

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```

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```
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```

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.940 perl 5.16.3 :291.e17

1.940.1 Available under license :

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```
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.941 perl-Carp 1.26 :244.e17

1.941.1 Available under license :

From RPM File Metadata:GPL+ or Artistic

1.942 perl-Compress-Raw-Bzip2 2.061 :3.e17

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.943 perl-Compress-Raw-Zlib 2.061 :4.e17

1.943.1 Available under license :

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1.944 perl-constant 1.27 :2.el7

1.944.1 Available under license :

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1.945 perl-Data-Dumper 2.145 :3.el7

1.945.1 Available under license :

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1.946 perl-DBD-Pg 2.19.3 :4.el7

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August 15, 1997

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```

```
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```

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program `Gnomovision' (a program to direct compilers to make passes
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.956 perl-IO-Compress 2.061 :2.el7

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1.957 perl-IO-Tty 1.10 :11.el7

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1.971 perl-Scalar-List-Utills 1.27 :248.el7

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program 'Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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1.975 perl-Term-Menu 0.09 :1

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name: perl-Term-Menu
summary: Term-Menu - Perl extension for asking questions and printing menus at the terminal
version: 0.09
release: 1
vendor: Sjors Gielen <sjorsgielen@gmail.com>
packager: Arix International <cpan2rpm@arix.com>
license: Artistic
group: Applications/CPAN
url: <http://www.cpan.org>
buildroot: % {_tmppath}/% {name}-% {version}-%(id -u -n)
buildarch: noarch
prefix: %(echo % {_prefix})
source: <http://search.cpan.org//CPAN/authors/id/D/DA/DAZJORZ/Term-Menu-0.09.tar.gz>
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Precedence: normal

Subject: [rt.cpan.org #90483] missing license file

From: "Alexandr Ciornii via RT" <bug-Text-ParseWords@rt.cpan.org>

Reply-To: bug-Text-ParseWords@rt.cpan.org

In-Reply-To: <rt-4.0.18-4704-1384789048-1647.90483-6-0@rt.cpan.org>

References: <RT-Ticket-90483@rt.cpan.org>

<rt-4.0.18-4704-1384789048-1647.90483-6-0@rt.cpan.org>

Message-ID: <rt-4.0.18-2172-1384790768-1347.90483-6-0@rt.cpan.org>

X-RT-Loop-Prevention: rt.cpan.org

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On Mon Nov 18 10:37:28 2013, mmaslano@redhat.com wrote:
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Will do in next version.

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yes

--

Alexandr Ciornii, <http://chorny.net>

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```
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```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.983 perl-version 0.99.07 :2.e17

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1.984 pixman 0.34.0 :1.e17

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1.992 plymouth 0.8.9

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1.995 poi-scratchpad 3.9.0.wso2v1

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1.1001 python-lxml 3.2.1 :4.el7

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1.1002 python27-python 2.7.12

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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/*-----
```

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```

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| RXTX is a native interface to serial ports in java.
```

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Version 1.1

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1.1011 rampart-core 1.6.1.wso2v12

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```
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*/
```

```
package org.apache.rampart;
```

```
import org.apache.axiom.soap.SOAPEnvelope;  
import org.apache.axiom.om.xpath.AXIOMXPath;  
import org.apache.axiom.om.OMNamespace;  
import org.apache.commons.logging.Log;  
import org.apache.commons.logging.LogFactory;  
import org.apache.rampart.policy.RampartPolicyData;  
import org.apache.rampart.policy.SupportingPolicyData;  
import org.apache.rampart.util.RampartUtil;  
import org.apache.ws.secpolicy.SPConstants;  
import org.apache.ws.secpolicy.model.*;  
import org.apache.ws.security.*;  
import org.apache.ws.security.message.token.Timestamp;  
import org.apache.ws.security.util.WSSecurityUtil;  
import org.w3c.dom.Element;  
import org.w3c.dom.Node;  
import org.w3c.dom.NodeList;  
import org.jaxen.XPath;  
import org.jaxen.JaxenException;  
  
import javax.xml.namespace.QName;  
import java.math.BigInteger;  
import java.security.cert.X509Certificate;
```

```

import java.util.*;

public class PolicyBasedResultsValidator implements PolicyValidatorCallbackHandler {

    private static Log log = LogFactory.getLog(PolicyBasedResultsValidator.class);

    /**
     * {@inheritDoc}
     */
    public void validate(ValidatorData data, Vector results) throws RampartException {

        RampartMessageData rmd = data.getRampartMessageData();

        RampartPolicyData rpd = rmd.getPolicyData();

        Set namespaces = RampartUtil.findAllPrefixNamespaces(rmd.getMsgContext().getEnvelope(),
            rpd.getDeclaredNamespaces());

        rmd.setDeclaredNamespaces(namespaces);

        // If there's Security policy present and no results
        // then we should throw an error
        if (rpd != null && results == null) {
            throw new RampartException("noSecurityResults");
        }

        // Check presence of timestamp
        WSSecurityEngineResult tsResult = null;
        if (rpd != null && rpd.isIncludeTimestamp()) {
            tsResult = WSSecurityUtil.fetchActionResult(results, WSConstants.TS);
            if (tsResult == null && !rpd.isIncludeTimestampOptional()) {
                throw new RampartException("timestampMissing");
            }
        }

        WSSecurityEngineResult krbResult;
        krbResult = WSSecurityUtil.fetchActionResult(results, WSConstants.KERBEROS_SIGN);
        if (krbResult == null) {
            krbResult = WSSecurityUtil.fetchActionResult(results, WSConstants.KERBEROS_ENCR);
        }
        if (krbResult == null) {
            krbResult = WSSecurityUtil.fetchActionResult(results, WSConstants.KERBEROS);
        }
        if (krbResult != null) {
            // TODO
            return;
        }
    }
}

```

```

Vector encryptedParts = new Vector();
Vector signatureParts = new Vector();

if (!rpd.getRampartConfig().isOptimizeMessageProcessingForTransportBinding()) {
    //sig/encr
    encryptedParts = RampartUtil.getEncryptedParts(rmd);
    if (rpd != null && rpd.isSignatureProtection() && isSignatureRequired(rmd)) {

        String sigId = RampartUtil.getSigElementId(rmd);

        encryptedParts.add(new WSEncryptionPart(WSConstants.SIG_LN,
            WSConstants.SIG_NS, "Element"));
    }

    signatureParts = RampartUtil.getSignedParts(rmd);

    //Timestamp is not included in sig parts
    if (tsResult != null || !rpd.isIncludeTimestampOptional()) {
        if (rpd != null && rpd.isIncludeTimestamp()
            && !rpd.isTransportBinding()) {
            signatureParts.add(new WSEncryptionPart("timestamp"));
        }
    }
}

if (!rmd.isInitiator()) {

    // Just an indicator for EndorsingSupportingToken signature
    SupportingToken endSupportingToken = rpd.getEndorsingSupportingTokens();
    if (endSupportingToken != null && !endSupportingToken.isOptional()) {
        SignedEncryptedParts endSignedParts = endSupportingToken.getSignedParts();
        if ((endSignedParts != null && !endSignedParts.isOptional()) && (endSignedParts
            .isBody() || endSignedParts.getHeaders().size() > 0))
            || rpd.isIncludeTimestamp()) {
            signatureParts.add(new WSEncryptionPart("EndorsingSupportingTokens"));
        }
    }

    // Just an indicator for SignedEndorsingSupportingToken signature
    SupportingToken sgndEndSupportingToken = rpd.getSignedEndorsingSupportingTokens();
    if (sgndEndSupportingToken != null && !sgndEndSupportingToken.isOptional()) {
        SignedEncryptedParts sgndEndSignedParts = sgndEndSupportingToken.getSignedParts();
        if ((sgndEndSignedParts != null && !sgndEndSignedParts.isOptional()) && (sgndEndSignedParts
            .isBody() || sgndEndSignedParts.getHeaders().size() > 0))
            || rpd.isIncludeTimestamp()) {
            signatureParts.add(new WSEncryptionPart("SignedEndorsingSupportingTokens"));
        }
    }
}

```

```

Vector supportingToks = rpd.getSupportingTokensList();
for (int i = 0; i < supportingToks.size(); i++) {
    SupportingToken supportingToken = (SupportingToken) supportingToks.get(i);
    if (supportingToken != null && !supportingToken.isOptional()) {
        SupportingPolicyData policyData = new SupportingPolicyData();
        policyData.build(supportingToken);
        encryptedParts.addAll(RampartUtil.getSupportingEncryptedParts(rmd, policyData));
        signatureParts.addAll(RampartUtil.getSupportingSignedParts(rmd, policyData));
    }
}

if (!rpd.getRampartConfig().isOptimizeMessageProcessingForTransportBinding()) {
    validateEncrSig(data, encryptedParts, signatureParts, results);
}

if (!rpd.isTransportBinding()) {
    validateProtectionOrder(data, results);
}

if (!rpd.getRampartConfig().isOptimizeMessageProcessingForTransportBinding()) {
    validateEncryptedParts(data, encryptedParts, results, namespaces);

    validateSignedPartsHeaders(data, signatureParts, results);
}

validateRequiredElements(data, namespaces);

// Supporting tokens
if (!rmd.isInitiator()) {
    validateSupportingTokens(data, results);
}

/*
 * Now we can check the certificate used to sign the message. In the following
 * implementation the certificate is only trusted if either it itself or the certificate of
 * the issuer is installed in the keystore.
 *
 * Note: the method verifyTrust(X509Certificate) allows custom implementations with other
 * validation algorithms for subclasses.
 */

// Extract the signature action result from the action vector
WSSecurityEngineResult actionResult = WSSecurityUtil.fetchActionResult(results,
    WSSConstants.SIGN);

if (actionResult != null) {

```

```

X509Certificate returnCert = (X509Certificate) actionResult
    .get(WSSecurityEngineResult.TAG_X509_CERTIFICATE);

if (returnCert != null) {
    if (!verifyTrust(returnCert, rmd)) {
        throw new RampartException("trustVerificationError");
    }
}
}

/*
 * Perform further checks on the timestamp that was transmitted in the header. In the
 * following implementation the timestamp is valid if : Timestamp->Created < 'now' <
 * Timestamp->Expires.
 * (Last test handled by WSS4J also if timeStampStrict enabled)
 *
 * Note: the method verifyTimestamp(Timestamp) allows custom implementations with other
 * validation algorithms for subclasses.
 */

// Extract the timestamp action result from the action vector
actionResult = WSSecurityUtil.fetchActionResult(results, WSConstants.TS);

if (actionResult != null) {
    Timestamp timestamp = (Timestamp) actionResult
        .get(WSSecurityEngineResult.TAG_TIMESTAMP);

    if (timestamp != null) {
        if (!verifyTimestamp(timestamp, rmd)) {
            throw new RampartException("cannotValidateTimestamp");
        }
    }
}

actionResult = WSSecurityUtil.fetchActionResult(results, WSConstants.SAML_TIMESTAMP);
if (actionResult != null) {
    Timestamp timestamp = (Timestamp) actionResult
        .get(WSSecurityEngineResult.TAG_TIMESTAMP);

    if (timestamp != null) {
        if (!verifySAMLTokenTimestamp(timestamp, rmd)) {
            throw new RampartException("invalidTimeStampInSamlToken");
        }
    }
}
}

/**

```

```

* @param encryptedParts
* @param signatureParts
*/
protected void validateEncrSig(ValidatorData data, Vector encryptedParts,
                               Vector signatureParts, Vector results) throws RampartException {
    ArrayList actions = getSigEncrActions(results);
    boolean sig = false;
    boolean encr = false;
    for (Iterator iter = actions.iterator(); iter.hasNext(); ) {
        Integer act = (Integer) iter.next();
        if (act.intValue() == WSConstants.SIGN) {
            sig = true;
        } else if (act.intValue() == WSConstants.ENCR) {
            encr = true;
        }
    }
}

RampartPolicyData rpd = data.getRampartMessageData().getPolicyData();

SupportingToken sgndSupTokens = rpd.getSignedSupportingTokens();
SupportingToken sgndEndorSupTokens = rpd.getSignedEndorsingSupportingTokens();

if (sig && signatureParts.size() == 0
    && (sgndSupTokens == null || sgndSupTokens.getTokens().size() == 0)
    && (sgndEndorSupTokens == null || sgndEndorSupTokens.getTokens().size() == 0)) {

    // Unexpected signature
    throw new RampartException("unexpectedSignature");
} else if (!sig && signatureParts.size() > 0) {

    // required signature missing
    throw new RampartException("signatureMissing");
}

if (encr && encryptedParts.size() == 0) {

    // Check whether its just an encrypted key
    ArrayList list = this.getResults(results, WSConstants.ENCR);
    boolean encrDataFound = false;
    for (Iterator iter = list.iterator(); iter.hasNext(); ) {
        WSSecurityEngineResult result = (WSSecurityEngineResult) iter.next();
        ArrayList dataRefURIs = (ArrayList) result
            .get(WSSecurityEngineResult.TAG_DATA_REF_URIS);
        if (dataRefURIs != null && dataRefURIs.size() != 0) {
            encrDataFound = true;
        }
    }
}

// TODO check whether the encrptedDataFound is an UsernameToken

```

```

        if (encrDataFound && !isUsernameTokenPresent(data)) {
            // Unexpected encryption
            throw new RampartException("unexpectedEncryptedPart");
        }
    } else if (!encr && encryptedParts.size() > 0) {

        // required signature missing
        throw new RampartException("encryptionMissing");
    }
}

/**
 * @param data
 * @param results
 */
protected void validateSupportingTokens(ValidatorData data, Vector results)
    throws RampartException {

    // Check for UsernameToken
    RampartPolicyData rpd = data.getRampartMessageData().getPolicyData();
    Vector supportingToks = rpd.getSupportingTokensList();
    for (int i = 0; i < supportingToks.size(); i++) {
        SupportingToken suppTok = (SupportingToken) supportingToks.get(i);
        handleSupportingTokens(results, suppTok);
    }
    SupportingToken signedSuppToken = rpd.getSignedSupportingTokens();
    handleSupportingTokens(results, signedSuppToken);
    SupportingToken signedEndSuppToken = rpd.getSignedEndorsingSupportingTokens();
    handleSupportingTokens(results, signedEndSuppToken);
    SupportingToken endSuppToken = rpd.getEndorsingSupportingTokens();
    handleSupportingTokens(results, endSuppToken);
}

/**
 * @param results
 * @param suppTok
 * @throws RampartException
 */
protected void handleSupportingTokens(Vector results, SupportingToken suppTok)
    throws RampartException {

    if (suppTok == null) {
        return;
    }

    ArrayList tokens = suppTok.getTokens();
    for (Iterator iter = tokens.iterator(); iter.hasNext(); ) {
        Token token = (Token) iter.next();

```



```

if (token instanceof UsernameToken) {
    UsernameToken ut = (UsernameToken) token;
    // Check presence of a UsernameToken
    WSSecurityEngineResult utResult = WSSecurityUtil.fetchActionResult(results,
        WSConstants.UT);
    if (utResult == null && !ut.isOptional()) {
        throw new RampartException("usernameTokenMissing");
    }

} else if (token instanceof IssuedToken) {
    //TODO is is enough to check for ST_UNSIGNED results ??
    WSSecurityEngineResult samlResult = WSSecurityUtil.fetchActionResult(results,
WSConstants.ST_UNSIGNED);
    if (samlResult == null) {
        throw new RampartException("samlTokenMissing");
    }

    IssuedToken issuedToken = (IssuedToken) token;

    if (issuedToken.getRstTokenType() != null) {

        // check the token type
        String tokenType = (String) samlResult.get(WSConstants.SAML_VERSION);
        if (tokenType == null) {
            throw new RampartException("samlversionmismatch");
        }

        if (!issuedToken.getRstTokenType().trim().equals(tokenType.trim())) {
            if (log.isDebugEnabled()) {
                log.debug("The issued token should contain a SAML token with the version "
                    + issuedToken.getRstTokenType());
            }
            throw new RampartException("samlversionmismatch");
        }
    }
}

//verify the mandatory claims
Set claimsAvailable = (Set) samlResult.get(WSConstants.SAML_CLAIM_SET);
if (issuedToken.getRstClaimSet().size() > 0) {
    for (String claimUri : issuedToken.getRstClaimSet()) {
        if (!claimsAvailable.contains(claimUri)) {
            if (log.isDebugEnabled()) {
                log.debug("Issued token does not contain the claim : " + claimUri);
            }
            throw new RampartException("requiredClaimMissing");
        }
    }
}
}

```

```

    } else if (token instanceof X509Token) {
        X509Token x509Token = (X509Token) token;
        WSSecurityEngineResult x509Result = WSSecurityUtil.fetchActionResult(results,
            WSConstants.BST);
        if (x509Result == null && !x509Token.isOptional()) {
            throw new RampartException("binaryTokenMissing");
        }
    }
}

/**
 * @param data
 * @param results
 */
protected void validateProtectionOrder(ValidatorData data, Vector results)
    throws RampartException {

    String protectionOrder = data.getRampartMessageData().getPolicyData().getProtectionOrder();
    ArrayList sigEncrActions = this.getSigEncrActions(results);

    if (sigEncrActions.size() < 2) {
        // There are no results to COMPARE
        return;
    }

    boolean sigNotPresent = true;
    boolean encrNotPresent = true;

    for (Iterator iter = sigEncrActions.iterator(); iter.hasNext(); ) {
        Integer act = (Integer) iter.next();
        if (act.intValue() == WSConstants.SIGN) {
            sigNotPresent = false;
        } else if (act.intValue() == WSConstants.ENCR) {
            encrNotPresent = false;
        }
    }

    // Only one action is present, so there is no order to check
    if (sigNotPresent || encrNotPresent) {
        return;
    }

    boolean done = false;
    if (SPConstants.SIGN_BEFORE_ENCRYPTING.equals(protectionOrder)) {

        boolean sigFound = false;
        for (Iterator iter = sigEncrActions.iterator(); iter.hasNext() || !done; ) {

```

```

Integer act = (Integer) iter.next();
if (act.intValue() == WSConstants.ENCR && !sigFound) {
    // We found ENCR and SIGN has not been found - break and fail
    break;
}
if (act.intValue() == WSConstants.SIGN) {
    sigFound = true;
} else if (sigFound) {
    // We have an ENCR action after sig
    done = true;
}
}

} else {
    boolean encrFound = false;
    for (Iterator iter = sigEncrActions.iterator(); iter.hasNext(); ) {
        Integer act = (Integer) iter.next();
        if (act.intValue() == WSConstants.SIGN && !encrFound) {
            // We found SIGN and ENCR has not been found - break and fail
            break;
        }
        if (act.intValue() == WSConstants.ENCR) {
            encrFound = true;
        } else if (encrFound) {
            // We have an ENCR action after sig
            done = true;
        }
    }
}

if (!done) {
    throw new RampartException("protectionOrderMismatch");
}

}

protected ArrayList getSigEncrActions(Vector results) {
    ArrayList sigEncrActions = new ArrayList();
    for (Iterator iter = results.iterator(); iter.hasNext(); ) {
        Integer actInt = (Integer) ((WSSecurityEngineResult) iter.next())
            .get(WSSecurityEngineResult.TAG_ACTION);
        int action = actInt.intValue();
        if (WSConstants.SIGN == action || WSConstants.ENCR == action) {
            sigEncrActions.add(Integer.valueOf(action));
        }
    }
    return sigEncrActions;
}

```

```

protected void validateEncryptedParts(ValidatorData data, Vector encryptedParts,
                                     Vector results, Set namespaces)
    throws RampartException {

    RampartMessageData rmd = data.getRampartMessageData();

    ArrayList encrRefs = getEncryptedReferences(results);

    RampartPolicyData rpd = rmd.getPolicyData();

    // build the list of encrypted nodes based on the dataRefs xpath expressions
    SOAPEnvelope envelope = rmd.getMsgContext().getEnvelope();

    Map decryptedElements = new HashMap();
    for (int i = 0; i < encrRefs.size(); i++) {
        WSDataRef dataRef = (WSDataRef) encrRefs.get(i);

        if (dataRef == null || dataRef.getXpath() == null) {
            continue;
        }

        try {
            XPath xp = new AXIOMXPath(dataRef.getXpath());

            Iterator nsIter = namespaces.iterator();

            while (nsIter.hasNext()) {
                OMNamespace tmpNs = (OMNamespace) nsIter.next();
                xp.addNamespace(tmpNs.getPrefix(), tmpNs.getNamespaceURI());
            }

            Iterator nodesIterator = xp.selectNodes(envelope).iterator();

            while (nodesIterator.hasNext()) {
                decryptedElements.put(nodesIterator.next(),
                                     Boolean.valueOf(dataRef.isContent()));
            }

        } catch (JaxenException e) {
            // This has to be changed to propagate an instance of a RampartException up
            throw new RampartException(
                "An error occurred while searching for decrypted elements.", e);
        }

    }

    boolean isBodyEncrypted = false;

```

```

for (int i = 0; i < encryptedParts.size(); i++) {

    WSEncryptionPart encPart = (WSEncryptionPart) encryptedParts.get(i);

    // This is the encrypted Body and we already checked encrypted body
    if (encPart.getType() == WSConstants.PART_TYPE_BODY) {
        isBodyEncrypted = true;
        continue;
    }

    if ((WSConstants.SIG_LN.equals(encPart.getName()) && WSConstants.SIG_NS.equals(encPart
        .getNamespace())) || encPart.getType() == WSConstants.PART_TYPE_HEADER) {
        if (!isRefIdPresent(encrRefs, new QName(encPart.getNamespace(), encPart.getName()))) {
            throw new RampartException("encryptedPartMissing",
                new String[]{encPart.getNamespace() + ":" + encPart.getName()});
        }
        continue;
    }

    // it is not a header or body part... verify encrypted xpath elements
    String xpath = encPart.getXpath();
    boolean found = false;
    try {
        XPath xp = new AXIOMXPath(xpath);
        Iterator nsIter = namespaces.iterator();

        while (nsIter.hasNext()) {
            OMNamespace tmpNs = (OMNamespace) nsIter.next();
            xp.addNamespace(tmpNs.getPrefix(), tmpNs.getNamespaceURI());
        }

        Iterator nodesIterator = xp.selectNodes(envelope).iterator();

        while (nodesIterator.hasNext()) {
            Object result = decryptedElements.get(nodesIterator.next());
            if (result != null
                && ("Element".equals(encPart.getEncModifier()) ^ ((Boolean) result
                    .booleanValue())) {
                found = true;
                break;
            }
        }

        if (!found) {
            throw new RampartException("encryptedPartMissing", new String[]{xpath});
        }
    }
}

```

```

    } catch (JaxenException e) {
        // This has to be changed to propagate an instance of a RampartException up
        throw new RampartException(
            "An error occurred while searching for decrypted elements.", e);
    }
}

//Check for encrypted body
if (rpd.isEncryptBody() && !rpd.isEncryptBodyOptional()) {
    if (!isBodyEncrypted) {
        throw new RampartException("encryptedPartMissing",
            new String[]{data.getBodyEncrDataId()});
    }
}
}

public void validateRequiredElements(ValidatorData data, Set namespaces) throws RampartException {

    RampartMessageData rmd = data.getRampartMessageData();

    RampartPolicyData rpd = rmd.getPolicyData();

    SOAPEnvelope envelope = rmd.getMsgContext().getEnvelope();

    Iterator elementsIter = rpd.getRequiredElements().iterator();

    while (elementsIter.hasNext()) {

        String expression = (String) elementsIter.next();

        if ( !RampartUtil.checkRequiredElements(envelope, namespaces, expression)) {
            throw new RampartException("requiredElementsMissing", new String[]{expression});
        }
    }
}

protected void validateSignedPartsHeaders(ValidatorData data, Vector signatureParts,
    Vector results) throws RampartException {

    RampartMessageData rmd = data.getRampartMessageData();

    Node envelope = rmd.getDocument().getFirstChild();

    WSSecurityEngineResult[] actionResults = fetchActionResults(results, WSConstants.SIGN);

    // Find elements that are signed

```

```

Vector actuallySigned = new Vector();
if (actionResults != null) {
    for (int j = 0; j < actionResults.length; j++) {

        WSSecurityEngineResult actionResult = actionResults[j];
        List wsDataRefs = (List) actionResult.getTag(WSSecurityEngineResult.TAG_DATA_REF_URIS);

        // if header was encrypted before it was signed, protected
        // element is 'EncryptedHeader.' the actual element is
        // first child element

        for (Iterator k = wsDataRefs.iterator(); k.hasNext(); ) {
            WSDataRef wsDataRef = (WSDataRef) k.next();
            Element protectedElement = wsDataRef.getProtectedElement();
            if (protectedElement.getLocalName().equals("EncryptedHeader")) {
                NodeList nodeList = protectedElement.getChildNodes();
                for (int x = 0; x < nodeList.getLength(); x++) {
                    if (nodeList.item(x).getNodeName() == Node.ELEMENT_NODE) {
                        String ns = ((Element) nodeList.item(x)).getNamespaceURI();
                        String ln = ((Element) nodeList.item(x)).getLocalName();
                        actuallySigned.add(new QName(ns, ln));
                        break;
                    }
                }
            } else {
                String ns = protectedElement.getNamespaceURI();
                String ln = protectedElement.getLocalName();
                actuallySigned.add(new QName(ns, ln));
            }
        }
    }
}

for (int i = 0; i < signatureParts.size(); i++) {
    WSEncryptionPart wsep = (WSEncryptionPart) signatureParts.get(i);

    if (wsep.getType() == WSConstants.PART_TYPE_BODY) {

        QName bodyQName;

        if (WSConstants.URI_SOAP11_ENV.equals(envelope.getNamespaceURI())) {
            bodyQName = new SOAP11Constants().getBodyQName();
        } else {
            bodyQName = new SOAP12Constants().getBodyQName();
        }

        if (!actuallySigned.contains(bodyQName)

```

```

        && !rmd.getPolicyData().isSignBodyOptional()) {
            // soap body is not signed
            throw new RampartException("bodyNotSigned");
        }

    } else if (wsep.getType() == WSConstants.PART_TYPE_HEADER
        || wsep.getType() == WSConstants.PART_TYPE_ELEMENT) {

        Element element = (Element) WSSecurityUtil.findElement(envelope, wsep.getName(),
            wsep.getNamespace());

        if (element == null) {
            // The signedpart header or element we are checking is not present in
            // soap envelope - this is allowed
            continue;
        }

        // header or the element present in soap envelope - verify that it is part of
        // signature
        if (actuallySigned.contains(new QName(element.getNamespaceURI(), element
            .getLocalName())) {
            continue;
        }

        String msg = wsep.getType() == WSConstants.PART_TYPE_HEADER ? "signedPartHeaderNotSigned"
            : "signedElementNotSigned";

        // header or the element defined in policy is present but not signed
        throw new RampartException(msg, new String[]{wsep.getNamespace() + ":"
            + wsep.getName()});

    }
}

protected boolean isSignatureRequired(RampartMessageData rmd) {
    RampartPolicyData rpd = rmd.getPolicyData();
    return (rpd.isSymmetricBinding() && rpd.getSignatureToken() != null)
        || (!rpd.isSymmetricBinding() && !rpd.isTransportBinding() && ((rpd
            .getInitiatorToken() != null && rmd.isInitiator()) || rpd
            .getRecipientToken() != null && !rmd.isInitiator()));
}

/*
 * Verify whether timestamp of the message is valid.
 * If timeStampStrict is enabled in rampartConfig; testing of timestamp has not expired
 * ('now' is before ts->Expires) is also handled earlier by WSS4J without timeskew.
 */

```



```

protected boolean verifyTimestamp(Timestamp timestamp, RampartMessageData rmd)
    throws RampartException {

    // adjust 'now' with allowed timeskew
    long maxSkew = RampartUtil.getTimestampMaxSkew(rmd);

    //Verify that ts->Created is before 'now'

    Calendar cre = timestamp.getCreated();
    if (cre != null) {
        long now = Calendar.getInstance().getTimeInMillis();

        //calculate the tolerance limit for timeskew of the 'Created' in timestamp
        if (maxSkew > 0) {
            now += (maxSkew * 1000);
        }

        // fail if ts->Created is after 'now'
        if (cre.getTimeInMillis() > now) {
            return false;
        }
    }

    Calendar expires = timestamp.getExpires();

    if (expires != null) {

        long now = Calendar.getInstance().getTimeInMillis();
        //calculate the tolerance limit for timeskew of the 'Expires' in timestamp
        if (maxSkew > 0) {
            now -= (maxSkew * 1000);
        }
        //fail if ts->Expires is before 'now'
        if (expires.getTimeInMillis() < now) {
            return false;
        }
    }

    return true;
}

/**
 * Evaluate whether a given certificate should be trusted. Hook to allow subclasses to implement
 * custom validation methods however they see fit.
 * <p/>
 * Policy used in this implementation: 1. Search the keystore for the transmitted certificate 2.
 * Search the keystore for a connection to the transmitted certificate (that is, search for

```

```

* certificate(s) of the issuer of the transmitted certificate 3. Verify the trust path for
* those certificates found because the search for the issuer might be fooled by a phony DN
* (String!)
*
* @param cert the certificate that should be validated against the keystore
* @return true if the certificate is trusted, false if not (AxisFault is thrown for exceptions
*     during CertPathValidation)
* @throws WSSecurityException
*/
protected boolean verifyTrust(X509Certificate cert, RampartMessageData rmd)
    throws RampartException {

    // If no certificate was transmitted, do not trust the signature
    if (cert == null) {
        return false;
    }

    String[] aliases = null;
    String alias = null;
    X509Certificate[] certs;

    String subjectString = cert.getSubjectDN().getName();
    String issuerString = cert.getIssuerDN().getName();
    BigInteger issuerSerial = cert.getSerialNumber();

    boolean doDebug = log.isDebugEnabled();

    if (doDebug) {
        log.debug("WSHandler: Transmitted certificate has subject " + subjectString);
        log.debug("WSHandler: Transmitted certificate has issuer " + issuerString + " (serial "
            + issuerSerial + ")");
    }

    // FIRST step
    // Search the keystore for the transmitted certificate

    // Search the keystore for the alias of the transmitted certificate
    try {
        alias = RampartUtil.getSignatureCrypto(rmd.getPolicyData().getRampartConfig(),
            rmd.getCustomClassLoader()).getAliasForX509Cert(issuerString, issuerSerial);
    } catch (WSSecurityException ex) {
        throw new RampartException("cannotFindAliasForCert", new String[]{subjectString}, ex);
    }

    if (alias != null) {
        // Retrieve the certificate for the alias from the keystore
        try {
            certs = RampartUtil.getSignatureCrypto(rmd.getPolicyData().getRampartConfig(),

```

```

        rmd.getCustomClassLoader().getCertificates(alias);
    } catch (WSSecurityException ex) {
        throw new RampartException("noCertForAlias", new String[]{alias}, ex);
    }

    // If certificates have been found, the certificates must be compared
    // to ensure against phony DN's (compare encoded form including signature)
    if (certs != null && certs.length > 0 && cert.equals(certs[0])) {
        if (doDebug) {
            log.debug("Direct trust for certificate with " + subjectString);
        }
        // Set the alias of the cert used for the msg. sig. as a msg. cxt. property
        rmd.getMsgContext().setProperty(RampartMessageData.SIGNATURE_CERT_ALIAS, alias);
        return true;
    }
} else {
    if (doDebug) {
        log.debug("No alias found for subject from issuer with " + issuerString
            + " (serial " + issuerSerial + ")");
    }
}

// SECOND step
// Search for the issuer of the transmitted certificate in the keystore

// Search the keystore for the alias of the transmitted certificates issuer
try {
    aliases = RampartUtil.getSignatureCrypto(rmd.getPolicyData().getRampartConfig(),
        rmd.getCustomClassLoader()).getAliasesForDN(issuerString);
} catch (WSSecurityException ex) {
    throw new RampartException("cannotFindAliasForCert", new String[]{issuerString}, ex);
}

// If the alias has not been found, the issuer is not in the keystore
// As a direct result, do not trust the transmitted certificate
if (aliases == null || aliases.length < 1) {
    if (doDebug) {
        log.debug("No aliases found in keystore for issuer " + issuerString
            + " of certificate for " + subjectString);
    }
    return false;
}

// THIRD step
// Check the certificate trust path for every alias of the issuer found in the keystore
for (int i = 0; i < aliases.length; i++) {
    alias = aliases[i];

```

```

if (doDebug) {
    log.debug("Preparing to validate certificate path with alias " + alias
        + " for issuer " + issuerString);
}

// Retrieve the certificate(s) for the alias from the keystore
try {
    certs = RampartUtil.getSignatureCrypto(rmd.getPolicyData().getRampartConfig(),
        rmd.getCustomClassLoader()).getCertificates(alias);
} catch (WSSecurityException ex) {
    throw new RampartException("noCertForAlias", new String[]{alias}, ex);
}

// If no certificates have been found, there has to be an error:
// The keystore can find an alias but no certificate(s)
if (certs == null || certs.length < 1) {
    throw new RampartException("noCertForAlias", new String[]{alias});
}

// Form a certificate chain from the transmitted certificate
// and the certificate(s) of the issuer from the keystore
// First, create new array
X509Certificate[] x509certs = new X509Certificate[certs.length + 1];
// Then add the first certificate ...
x509certs[0] = cert;
// ... and the other certificates
for (int j = 0; j < certs.length; j++) {
    cert = certs[j];
    x509certs[j + 1] = cert;
}
certs = x509certs;

// Use the validation method from the crypto to check whether the subjects certificate
// was really signed by the issuer stated in the certificate
try {
    if (RampartUtil.getSignatureCrypto(rmd.getPolicyData().getRampartConfig(),
        rmd.getCustomClassLoader()).validateCertPath(certs)) {
        if (doDebug) {
            log.debug("WSHandler: Certificate path has been verified for certificate with subject "
                + subjectString);
        }
        return true;
    }
} catch (WSSecurityException ex) {
    throw new RampartException("certPathVerificationFailed",
        new String[]{subjectString}, ex);
}
}

```

```

if (doDebug) {
    log.debug("WSHandler: Certificate path could not be verified for certificate with subject "
        + subjectString);
}
return false;
}

protected ArrayList getEncryptedReferences(Vector results) {

    // there can be multiple ref lists
    ArrayList encrResults = getResults(results, WSConstants.ENCR);

    ArrayList refs = new ArrayList();

    for (Iterator iter = encrResults.iterator(); iter.hasNext(); ) {
        WSSecurityEngineResult engineResult = (WSSecurityEngineResult) iter.next();
        ArrayList dataRefUris = (ArrayList) engineResult
            .get(WSSecurityEngineResult.TAG_DATA_REF_URIS);

        // take only the ref list processing results
        if (dataRefUris != null) {
            for (Iterator iterator = dataRefUris.iterator(); iterator.hasNext(); ) {
                WSDataRef uri = (WSDataRef) iterator.next();
                refs.add(uri);
            }
        }
    }

    return refs;
}

protected ArrayList getResults(Vector results, int action) {

    ArrayList list = new ArrayList();

    for (int i = 0; i < results.size(); i++) {
        // Check the result of every action whether it matches the given
        // action
        Integer actInt = (Integer) ((WSSecurityEngineResult) results.get(i))
            .get(WSSecurityEngineResult.TAG_ACTION);
        if (actInt.intValue() == action) {
            list.add((WSSecurityEngineResult) results.get(i));
        }
    }

    return list;
}

```

```

protected boolean isUsernameTokenPresent(ValidatorData data) {

    // TODO This can be integrated with supporting token processing
    // which also checks whether Username Tokens present

    RampartPolicyData rpd = data.getRampartMessageData().getPolicyData();

    Vector supportingToks = rpd.getSupportingTokensList();
    for (int i = 0; i < supportingToks.size(); i++) {
        SupportingToken suppTok = (SupportingToken) supportingToks.get(i);
        if (isUsernameTokenPresent(suppTok)) {
            return true;
        }
    }

    SupportingToken signedSuppToken = rpd.getSignedSupportingTokens();
    if (isUsernameTokenPresent(signedSuppToken)) {
        return true;
    }

    SupportingToken signedEndSuppToken = rpd.getSignedEndorsingSupportingTokens();
    if (isUsernameTokenPresent(signedEndSuppToken)) {
        return true;
    }

    SupportingToken endSuppToken = rpd.getEndorsingSupportingTokens();
    if (isUsernameTokenPresent(endSuppToken)) {
        return true;
    }

    return false;
}

```

```

protected boolean isUsernameTokenPresent(SupportingToken suppTok) {

    if (suppTok == null) {
        return false;
    }

    ArrayList tokens = suppTok.getTokens();
    for (Iterator iter = tokens.iterator(); iter.hasNext(); ) {
        Token token = (Token) iter.next();
        if (token instanceof UsernameToken) {
            return true;
        }
    }
}

```

```

    return false;
}

private boolean isRefIdPresent(ArrayList refList, String id) {

    if (id != null && id.charAt(0) == '#') {
        id = id.substring(1);
    }

    for (int i = 0; i < refList.size(); i++) {
        WSDDataRef dataRef = (WSDDataRef) refList.get(i);

        // ArrayList can contain null elements
        if (dataRef == null) {
            continue;
        }
        // Try to get the wsuId of the decrypted element
        String dataRefUri = dataRef.getWsuId();
        // If not found, try the reference Id of encrypted element ( we set the same Id when we
        // decrypted element in WSS4J)
        if (dataRefUri == null) {
            dataRefUri = dataRef.getDataref();
        }
        if (dataRefUri != null && dataRefUri.equals(id)) {
            return true;
        }
    }

    return false;
}

public static WSSecurityEngineResult[] fetchActionResults(Vector wsResultVector, int action) {
    List wsResult = new ArrayList();

    // Find the part of the security result that matches the given action
    for (int i = 0; i < wsResultVector.size(); i++) {
        // Check the result of every action whether it matches the given action
        WSSecurityEngineResult result = (WSSecurityEngineResult) wsResultVector.get(i);
        int resultAction = ((java.lang.Integer) result.get(WSSecurityEngineResult.TAG_ACTION))
            .intValue();
        if (resultAction == action) {
            wsResult.add((WSSecurityEngineResult) wsResultVector.get(i));
        }
    }

    return (WSSecurityEngineResult[]) wsResult.toArray(new WSSecurityEngineResult[wsResult

```

```

        .size()]);
    }

    private boolean isRefIdPresent(ArrayList refList, QName qname) {

        for (int i = 0; i < refList.size(); i++) {
            WSDataRef dataRef = (WSDataRef) refList.get(i);

            // ArrayList can contain null elements
            if (dataRef == null) {
                continue;
            }
            // QName of the decrypted element
            QName dataRefQName = dataRef.getName();

            if (dataRefQName != null && dataRefQName.equals(qname)) {
                return true;
            }

        }

        return false;
    }

    /*
    * Verify timestamp of the SAML Token.
    */
    protected boolean verifySAMLTokenTimestamp(Timestamp timestamp, RampartMessageData rmd)
        throws RampartException {

        long now = Calendar.getInstance().getTimeInMillis();
        long maxSkew = RampartUtil.getTimestampMaxSkew(rmd);

        Calendar cre = timestamp.getCreated();
        if (cre != null) {
            // adjust 'now' with allowed timeskew

            long upperLimit = now;
            if (maxSkew > 0) {
                upperLimit += (maxSkew * 1000);
            }

            // fail if ts->Created is after 'now'
            if (cre.getTimeInMillis() > upperLimit) {
                return false;
            }
        }
    }
}

```



```

// fail if ts->expires has passed by
Calendar exp = timestamp.getExpires();
if (exp != null) {
    if (maxSkew > 0) {
        now -= (maxSkew * 1000);
    }
    if (exp.getTimeInMillis() < now) {
        return false;
    }
}

return true;
}

}
/*
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 *
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
package org.apache.rampart;

import java.util.Vector;

/**
 * Callback handler interface to allow different implementations of policy based results validation.
 * Default implementation is org.apache.rampart.PolicyBasedResultsValidator.
 * Custom implementations could be provided in rampart config as shown in below example.
 *
 * Example:
 * <PRE>
 * <ramp:RampartConfig xmlns:ramp="http://ws.apache.org/rampart/policy">
 *   <ramp:policyValidatorCbClass>xx.yy.CustomPolicyValidator</ramp:policyValidatorCbClass>
 *   ...
 * </ramp:RampartConfig>
 * </PRE>
 */

```

```

public interface PolicyValidatorCallbackHandler {
    /**
     * Validate policy based results.
     *
     * @param data validator data
     * @param results policy based ws-security results
     * @throws RampartException Rampart exception
     */
    public abstract void validate(ValidatorData data, Vector results) throws RampartException;
}
/**
 * Copyright 2004,2005 The Apache Software Foundation.
 *
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.apache.rampart.policy;

import org.apache.axis2.policy.model.MTOMAssertion;
import org.apache.neethi.Policy;
import org.apache.rampart.RampartException;
import org.apache.rampart.policy.model.OptimizePartsConfig;
import org.apache.rampart.policy.model.RampartConfig;
import org.apache.ws.secpolicy.SPConstants;
import org.apache.ws.secpolicy.WSSPolicyException;
import org.apache.ws.secpolicy.model.AlgorithmSuite;
import org.apache.ws.secpolicy.model.SecureConversationToken;
import org.apache.ws.secpolicy.model.SupportingToken;
import org.apache.ws.secpolicy.model.Token;
import org.apache.ws.secpolicy.model.Trust10;
import org.apache.ws.secpolicy.model.Wss10;
import org.apache.ws.secpolicy.model.Wss11;
import org.apache.ws.security.WSEncryptionPart;

import java.util.HashMap;
import java.util.Vector;

```

```

public class RampartPolicyData {

    /*
     * Global settings for overall security processing
     */
    private boolean symmetricBinding;

    private boolean transportBinding;

    private boolean asymmetricBinding;

    private String layout;

    private boolean includeTimestamp;

    private boolean includeTimestampOptional;

    private boolean entireHeadersAndBodySignatures;

    private String protectionOrder;

    private boolean signatureProtection;

    private boolean tokenProtection;

    private boolean signatureConfirmation;

    //Policy namespace
    private String webServiceSecurityPolicyNS = null;

    /*
     * Message tokens for symmetrical binding
     */
    private Token encryptionToken;

    private Token signatureToken;

    /*
     * Message token for transport binding
     */
    private Token transportToken;

    /*
     * Message tokens for asymmetrical binding
     */
    private Token recipientToken; // used to encrypt data to

```

```

// receiptent

private Token initiatorToken; // used to sign data by

// initiator

/*
 * Which parts or elements of the message to sign/encrypt with the messagen
 * tokens. Parts or elements to sign/encrypt with supporting tokens are
 * stored together with the tokens (see WSS4JPolicyToken).
 */
private boolean signBody;

private boolean encryptBody;

private boolean signAttachments;

private boolean encryptAttachments;

private boolean signBodyOptional;

private boolean encryptBodyOptional;

private boolean signAttachmentsOptional;

private boolean encryptAttachmentsOptional;

private boolean signAllHeaders;

private Vector signedParts = new Vector();

private Vector signedElements = new Vector();

private Vector encryptedParts = new Vector();

private Vector encryptedElements = new Vector();

private Vector requiredElements = new Vector();

private Vector contentEncryptedElements = new Vector();

private HashMap declaredNamespaces = new HashMap();

/*
 * Holds the supporting tokens elements
 */
//private SupportingToken supportingTokens;

```

```

private SupportingToken signedSupportingTokens;

private SupportingToken endorsingSupportingTokens;

private SupportingToken signedEndorsingSupportingTokens;

private SupportingToken encryptedSupportingTokens;

private SupportingToken signedEncryptedSupportingTokens;

private SupportingToken endorsingEncryptedSupportingTokens;

private SupportingToken signedEndorsingEncryptedSupportingTokens;

private AlgorithmSuite algorithmSuite;

private RampartConfig rampartConfig;

private MTOMAssertion mtomAssertion;

private Trust10 trust10;

private HashMap supportingTokensIdMap;
private HashMap signedSupportingTokensIdMap;
private HashMap endorsingSupportingTokensIdMap;
private HashMap signedEndorsingSupportingTokensIdMap;

private Wss10 wss10;
private Wss11 wss11;

private Policy issuerPolicy;

private Vector supportingPolicyData = new Vector();

private Vector supportingTokens = new Vector();

public String getWebServiceSecurityPolicyNS() {
    return webServiceSecurityPolicyNS;
}

public void setWebServiceSecurityPolicyNS(String webServiceSecurityPolicyNS) {
    this.webServiceSecurityPolicyNS = webServiceSecurityPolicyNS;
}

public Vector getSupportingPolicyData() {

```

```

        return supportingPolicyData;
    }

    public void addSupportingPolicyData(SupportingPolicyData supportingPolicyData) {
        this.supportingPolicyData.add(supportingPolicyData);
    }

    public boolean isSignBodyOptional() {
        return signBodyOptional;
    }

    public void setSignBodyOptional(boolean signBodyOptional) {
        this.signBodyOptional = signBodyOptional;
    }

    public boolean isEncryptBodyOptional() {
        return encryptBodyOptional;
    }

    public void setEncryptBodyOptional(boolean encryptBodyOptional) {
        this.encryptBodyOptional = encryptBodyOptional;
    }

    public boolean isSignAttachmentsOptional() {
        return signAttachmentsOptional;
    }

    public void setSignAttachmentsOptional(boolean signAttachmentsOptional) {
        this.signAttachmentsOptional = signAttachmentsOptional;
    }

    public boolean isEncryptAttachmentsOptional() {
        return encryptAttachmentsOptional;
    }

    public void setEncryptAttachmentsOptional(boolean encryptAttachmentsOptional) {
        this.encryptAttachmentsOptional = encryptAttachmentsOptional;
    }

    /**
     * @return Returns the symmetricBinding.
     */
    public boolean isSymmetricBinding() {
        return symmetricBinding;
    }

    /**
     * @param symmetricBinding

```

```

*      The symmetricBinding to set.
*/
public void setSymmetricBinding(boolean symmetricBinding) {
    this.symmetricBinding = symmetricBinding;
}

/**
 * @return Returns a boolean value indicating whether a Asymmetric Binding
 */
public boolean isAsymmetricBinding() {
    return asymmetricBinding;
}

/**
 * @param asymmetricBinding
 *      boolean value indicating whether a Asymmetric Binding
 */
public void setAsymmetricBinding(boolean asymmetricBinding) {
    this.asymmetricBinding = asymmetricBinding;
}

/**
 * @return Returns the entireHeaderAndBodySignatures.
 */
public boolean isEntireHeadersAndBodySignatures() {
    return entireHeadersAndBodySignatures;
}

/**
 * @param entireHeaderAndBodySignatures
 *      The entireHeaderAndBodySignatures to set.
 */
public void setEntireHeadersAndBodySignatures(
    boolean entireHeaderAndBodySignatures) {
    this.entireHeadersAndBodySignatures = entireHeaderAndBodySignatures;
}

/**
 * @return Returns the includeTimestamp.
 */
public boolean isIncludeTimestamp() {
    return includeTimestamp;
}

/**
 * @param includeTimestamp
 *      The includeTimestamp to set.
 */
public void setIncludeTimestamp(boolean includeTimestamp) {

```

```

        this.includeTimestamp = includeTimestamp;
    }

    public boolean isIncludeTimestampOptional() {
    return includeTimestampOptional;
    }

    public void setIncludeTimestampOptional(boolean includeTimestampOptional) {
    this.includeTimestampOptional = includeTimestampOptional;
    }

    /**
     * @return Returns the layout.
     */
    public String getLayout() {
        return layout;
    }

    /**
     * @param layout
     *         The layout to set.
     */
    public void setLayout(String layout) {
        this.layout = layout;
    }

    /**
     * @return Returns the protectionOrder.
     */
    public String getProtectionOrder() {
        return protectionOrder;
    }

    /**
     * @param protectionOrder
     *         The protectionOrder to set.
     */
    public void setProtectionOrder(String protectionOrder) {
        this.protectionOrder = protectionOrder;
    }

    /**
     * @return Returns the signatureProtection.
     */
    public boolean isSignatureProtection() {
        return signatureProtection;
    }
}

```



```

/**
 * @param signatureProtection
 *     The signatureProtection to set.
 */
public void setSignatureProtection(boolean signatureProtection) {
    this.signatureProtection = signatureProtection;
}

/**
 * @return Returns the tokenProtection.
 */
public boolean isTokenProtection() {
    return tokenProtection;
}

/**
 * @param tokenProtection
 *     The tokenProtection to set.
 */
public void setTokenProtection(boolean tokenProtection) {
    this.tokenProtection = tokenProtection;
}

/**
 * @return Returns the signatureConfirmation.
 */
public boolean isSignatureConfirmation() {
    return signatureConfirmation;
}

/**
 * @param signatureConfirmation
 *     The signatureConfirmation to set.
 */
public void setSignatureConfirmation(boolean signatureConfirmation) {
    this.signatureConfirmation = signatureConfirmation;
}

/**
 * @return Returns the encryptedElements.
 */
public Vector getEncryptedElements() {
    return encryptedElements;
}

/**
 * @param encElement
 *     The encrypted Element (XPath) to set.

```

```

*/
public void setEncryptedElements(String encElement) {

    encryptedElements.add(encElement);
}

/**
 * @return Returns the requiredElements.
 */
public Vector getRequiredElements() {
    return requiredElements;
}

/**
 * @param requiredElements
 *      The Required Element (XPath) to set.
 */
public void setRequiredElements(String reqElement) {
    requiredElements.add(reqElement);
}

/**
 * @return Returns the contentEncryptedElements.
 */
public Vector getContentEncryptedElements() {
    return contentEncryptedElements;
}

/**
 * @param encElement
 *      The encrypted Element (XPath) to set.
 */
public void setContentEncryptedElements(String encElement) {

    contentEncryptedElements.add(encElement);
}

/**
 * @return Returns the encryptedParts.
 */
public Vector getEncryptedParts() {
    return encryptedParts;
}

/**
 * @param namespace
 *      The namespace of the part.
 * @param element

```

```

*      The part's element name.
*/
public void setEncryptedParts(String namespace, String element) {
    WSEncryptionPart wep = new WSEncryptionPart(element, namespace,
        "Element");
    encryptedParts.add(wep);
}

/**
 * @param namespace
 *      The namespace of the part.
 * @param element
 *      The part's element name.
 * @param modifier
 *      The type of encryption
 *      Element,Content,Header
 */
public void setEncryptedParts(String namespace, String element,
                               String modifier) {
    WSEncryptionPart wep = new WSEncryptionPart(element, namespace,
        modifier);
    encryptedParts.add(wep);
}

/**
 * @return Returns the encryptBody.
 */
public boolean isEncryptBody() {
    return encryptBody;
}

/**
 * @param encryptBody
 *      The encryptBody to set.
 */
public void setEncryptBody(boolean encryptBody) {
    this.encryptBody = encryptBody;
}

/**
 * @return Returns the signBody.
 */
public boolean isSignBody() {
    return signBody;
}

/**

```

```

* @param signBody
*     The signBody to set.
*/
public void setSignBody(boolean signBody) {
    this.signBody = signBody;
}

/**
* @return Returns the signAttachments.
*/
public boolean isSignAttachments() {
    return signAttachments;
}

/**
* @param signAttachments
*     The signAttachments to set.
*/
public void setSignAttachments(boolean signAttachments) {
    this.signAttachments = signAttachments;
}

/**
* @return Returns the encryptAttachments.
*/
public boolean isEncryptAttachments() {
    return encryptAttachments;
}

/**
* @param encryptAttachments
*     The encryptAttachments to set.
*/
public void setEncryptAttachments(boolean encryptAttachments) {
    this.encryptAttachments = encryptAttachments;
}

/**
* @return Returns the signedElements.
*/
public Vector getSIGNEDElements() {
    return signedElements;
}

/**
* @param sigElement
*     The signed Element (XPath) to set.
*/

```

```

public void setSignedElements(String sigElement) {

    signedElements.add(sigElement);
}

/**
 * @return Returns the signedParts.
 */
public Vector getSignedParts() {
    return signedParts;
}

public HashMap getDeclaredNamespaces() {
    return declaredNamespaces;
}

public void addDeclaredNamespaces(HashMap namespaces) {
    declaredNamespaces.putAll(namespaces);
}

/**
 * @param namespace
 *       The namespace of the part.
 * @param element
 *       The part's element name.
 */
public void addSignedPart(String namespace, String element) {

    WSEncryptionPart wep = new WSEncryptionPart(element, namespace,
        "Content");
    signedParts.add(wep);
}

public void addSignedPart(WSEncryptionPart part) {
    signedParts.add(part);
}

public void setSignedParts(Vector signedParts) {
    this.signedParts = signedParts;
}

public void setSupportingTokens(SupportingToken suppTokens)
    throws WSSPolicyException {

    int tokenType = suppTokens.getTokenType();
    if (tokenType == SPConstants.SUPPORTING_TOKEN_SUPPORTING) {
        supportingTokens.add(suppTokens);
    } else if (tokenType == SPConstants.SUPPORTING_TOKEN_SIGNED) {

```

```

        signedSupportingTokens = suppTokens;
    } else if (tokenType == SPConstants.SUPPORTING_TOKEN_ENDORSING) {
        endorsingSupportingTokens = suppTokens;
    } else if (tokenType == SPConstants.SUPPORTING_TOKEN_SIGNED_ENDORSING) {
        signedEndorsingSupportingTokens = suppTokens;
    } else if (tokenType == SPConstants.SUPPORTING_TOKEN_ENCRYPTED) {
        encryptedSupportingTokens = suppTokens;
    } else if (tokenType == SPConstants.SUPPORTING_TOKEN_SIGNED_ENCRYPTED) {
        signedEncryptedSupportingTokens = suppTokens;
    } else if (tokenType == SPConstants.SUPPORTING_TOKEN_ENDORSING_ENCRYPTED) {
        endorsingEncryptedSupportingTokens = suppTokens;
    } else if (tokenType == SPConstants.SUPPORTING_TOKEN_SIGNED_ENDORSING_ENCRYPTED) {
        signedEndorsingEncryptedSupportingTokens = suppTokens;
    }
}

/**
 * @return Returns the rampartConfig.
 */
public RampartConfig getRampartConfig() {
    return rampartConfig;
}

/**
 * @return Returns the encryptionToken.
 */
public Token getEncryptionToken() {
    return encryptionToken;
}

/**
 * @param encryptionToken The encryptionToken to set.
 */
public void setEncryptionToken(Token encryptionToken) {
    this.encryptionToken = encryptionToken;
    this.extractIssuerPolicy(encryptionToken);
}

/**
 * @return Returns the initiatorToken.
 */
public Token getInitiatorToken() {
    return initiatorToken;
}

/**

```

```

* @param initiatorToken The initiatorToken to set.
*/
public void setInitiatorToken(Token initiatorToken) {
    this.initiatorToken = initiatorToken;
}

/**
* @return Returns the TransportToken.
*/
public Token getTransportToken() {
    return transportToken;
}

/**
* @param transportToken The TransportToken to set.
*/
public void setTransportToken(Token transportToken) {
    this.transportToken = transportToken;
}

/**
* @return Returns the recipientToken.
*/
public Token getRecipientToken() {
    return recipientToken;
}

/**
* @param recipientToken The recipientToken to set.
*/
public void setRecipientToken(Token recipientToken) {
    this.recipientToken = recipientToken;
}

public void setProtectionToken(Token protectionToken) {
    this.setEncryptionToken(protectionToken);
    this.setSignatureToken(protectionToken);
    this.extractIssuerPolicy(protectionToken);
}

/**
* @return Returns the signatureToken.
*/
public Token getSignatureToken() {
    return signatureToken;
}

/**

```

```

* @param signatureToken The signatureToken to set.
*/
public void setSignatureToken(Token signatureToken) {
    this.signatureToken = signatureToken;
    this.extractIssuerPolicy(signatureToken);
}

/**
* @return Returns the signedEndorsingSupportingToken.
*/
public SupportingToken getSignedEndorsingSupportingTokens() {
    return signedEndorsingSupportingTokens;
}

/**
* @param signedEndorsingSupportingTokens The signedEndorsingSupportingToken to set.
*/
public void setSignedEndorsingSupportingTokens(
    SupportingToken signedEndorsingSupportingTokens) {
    this.signedEndorsingSupportingTokens = signedEndorsingSupportingTokens;
}

/**
* @return Returns the signedEndorsingEncryptedSupportingToken.
*/
public SupportingToken getSignedEndorsingEncryptedSupportingTokens() {
    return signedEndorsingEncryptedSupportingTokens;
}

/**
* @param signedEndorsingEncryptedSupportingTokens The signedEndorsingEncryptedSupportingToken to set.
*/
public void setSignedEndorsingEncryptedSupportingTokens(
    SupportingToken signedEndorsingEncryptedSupportingTokens) {
    this.signedEndorsingEncryptedSupportingTokens = signedEndorsingEncryptedSupportingTokens;
}

/**
* @return Returns the signedSupportingToken.
*/
public SupportingToken getSignedSupportingTokens() {
    return signedSupportingTokens;
}

/**
* @param signedSupportingTokens The signedSupportingToken to set.
*/
public void setSignedSupportingTokens(SupportingToken signedSupportingTokens) {

```



```

        this.signedSupportingTokens = signedSupportingTokens;
    }

    /**
     * @return Returns the signedEncryptedSupportingToken.
     */
    public SupportingToken getSignedEncryptedSupportingTokens() {
        return signedEncryptedSupportingTokens;
    }

    /**
     * @param signedEncryptedSupportingTokens The signedEncryptedSupportingToken to set.
     */
    public void setSignedEncryptedSupportingTokens(SupportingToken signedEncryptedSupportingTokens) {
        this.signedEncryptedSupportingTokens = signedEncryptedSupportingTokens;
    }

    /**
     * @return Returns the supportingTokenList.
     */
    public Vector getSupportingTokensList() {
        return supportingTokens;
    }

    public SupportingToken getSupportingTokens() {
        if (supportingTokens.size() > 0) {
            return (SupportingToken) supportingTokens.get(0);
        } else {
            return null;
        }
    }

    /**
     * @param encryptedSupportingTokens The encryptedSupportingToken to set.
     */
    public void setEncryptedSupportingTokens(SupportingToken encryptedSupportingTokens) {
        this.encryptedSupportingTokens = encryptedSupportingTokens;
    }

    /**
     * @return Returns the encryptedSupportingToken.
     */
    public SupportingToken getEncryptedSupportingTokens() {
        return encryptedSupportingTokens;
    }

    /**
     * @param endorsingSupportingTokens The endorsingSupportingToken to set.

```

```

*/
public void setEndorsingSupportingTokens(SupportingToken endorsingSupportingTokens) {
    this.endorsingSupportingTokens = endorsingSupportingTokens;
}

/**
 * @return Returns the endorsingSupportingToken.
 */
public SupportingToken getEndorsingSupportingTokens() {
    return endorsingSupportingTokens;
}

/**
 * @param endorsingEncryptedSupportingTokens The endorsingEncryptedSupportingToken to set.
 */
public void setEndorsingEncryptedSupportingTokens(SupportingToken endorsingEncryptedSupportingTokens) {
    this.endorsingEncryptedSupportingTokens = endorsingEncryptedSupportingTokens;
}

/**
 * @return Returns the endorsingEncryptedSupportingToken.
 */
public SupportingToken getEndorsingEncryptedSupportingTokens() {
    return endorsingEncryptedSupportingTokens;
}

/**
 * @return Returns the algorithmSuite.
 */
public AlgorithmSuite getAlgorithmSuite() {
    return algorithmSuite;
}

/**
 * @param algorithmSuite The algorithmSuite to set.
 */
public void setAlgorithmSuite(AlgorithmSuite algorithmSuite) {
    this.algorithmSuite = algorithmSuite;
}

/**
 * @return Returns the trust10.
 */
public Trust10 getTrust10() {
    return trust10;
}

/**

```

```

    * @param trust10 The trust10 to set.
    */
    public void setTrust10(Trust10 trust10) {
        this.trust10 = trust10;
    }

    /**
     * @param rampartConfig The rampartConfig to set.
     */
    public void setRampartConfig(RampartConfig rampartConfig) {
        this.rampartConfig = rampartConfig;
    }

    /**
     * @return Returns the transportBinding.
     */
    public boolean isTransportBinding() {
        return transportBinding;
    }

    /**
     * @param transportBinding The transportBinding to set.
     */
    public void setTransportBinding(boolean transportBinding) {
        this.transportBinding = transportBinding;
    }

    /**
     * Add the given token and id to the map.
     * @param token
     * @param id
     */
    public void setSupporttingTokenId(Token token, String id, int type) throws RampartException {

        HashMap tokenMap = null;
        switch (type) {
            case SPConstants.SUPPORTING_TOKEN_SUPPORTING:
                if(this.supportingTokensIdMap == null) {
                    this.supportingTokensIdMap = new HashMap();
                }
                tokenMap = this.supportingTokensIdMap;
                break;

            case SPConstants.SUPPORTING_TOKEN_SIGNED:
                if(this.signedSupportingTokensIdMap == null) {
                    this.signedSupportingTokensIdMap = new HashMap();
                }
        }
    }

```

```

        tokenMap = this.signedSupportingTokensIdMap;
        break;

    case SPConstants.SUPPORTING_TOKEN_ENDORSING:
        if(this.endorsingSupportingTokensIdMap == null) {
            this.endorsingSupportingTokensIdMap = new HashMap();
        }
        tokenMap = this.endorsingSupportingTokensIdMap;
        break;

    case SPConstants.SUPPORTING_TOKEN_SIGNED_ENDORSING:
        if(this.signedEndorsingSupportingTokensIdMap == null) {
            this.signedEndorsingSupportingTokensIdMap = new HashMap();
        }
        tokenMap = this.signedEndorsingSupportingTokensIdMap;
        break;

    default:
        throw new RampartException("invalidSupportingVersionType",
            new String[] { Integer.toString(type) });
    }

    tokenMap.put(token, id);
}

public String getSupportingTokenID(Token token, int type)
    throws RampartException {
    switch (type) {
    case SPConstants.SUPPORTING_TOKEN_SUPPORTING:
        if(this.supportingTokensIdMap != null) {
            return (String)this.supportingTokensIdMap.get(token);
        }
        return null;

    case SPConstants.SUPPORTING_TOKEN_SIGNED:
        if(this.signedSupportingTokensIdMap != null) {
            return (String)this.signedSupportingTokensIdMap.get(token);
        }
        return null;

    case SPConstants.SUPPORTING_TOKEN_ENDORSING:
        if(this.endorsingSupportingTokensIdMap != null) {
            return (String)this.endorsingSupportingTokensIdMap.get(token);
        }
        return null;

    case SPConstants.SUPPORTING_TOKEN_SIGNED_ENDORSING:
        if(this.signedEndorsingSupportingTokensIdMap == null) {

```

```

        this.signedEndorsingSupportingTokensIdMap = new HashMap();
    }
    return null;

    default:
        throw new RampartException("invalidSupportingVersionType",
            new String[] { Integer.toString(type) });
    }
}

public Wss10 getWss10() {
    return wss10;
}

public void setWss10(Wss10 wss10) {
    this.wss10 = wss10;
}

public Wss11 getWss11() {
    return wss11;
}

public void setWss11(Wss11 wss11) {
    this.wss11 = wss11;
}

private void extractIssuerPolicy(Token token) {
    if(token instanceof SecureConversationToken && this.issuerPolicy == null) {
        this.issuerPolicy = ((SecureConversationToken)token).getBootstrapPolicy();
    }
}

public Policy getIssuerPolicy() {
    return issuerPolicy;
}

public void setMTOMAssertion(MTOMAssertion mtomAssertion){
    this.mtomAssertion = mtomAssertion;
}

public MTOMAssertion getMTOMAssertion(){
    return mtomAssertion;
}

public boolean isSignAllHeaders() {
    return signAllHeaders;
}
}

```

```

public void setSignAllHeaders(boolean signAllHeaders) {
    this.signAllHeaders = signAllHeaders;
}

public boolean isMTOMSerialize(){
    if(mtomAssertion == null){
        return false;
    }
    else if(mtomAssertion.isOptional()==false){
        return true;
    }
    else
        return false;
}

public OptimizePartsConfig getOptimizePartsConfig(){
    return rampartConfig.getOptimizeParts();
}

}
/*
 * Copyright 2004,2005 The Apache Software Foundation.
 *
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
package org.apache.rampart.policy;

import org.apache.axis2.policy.model.MTOMAssertion;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.neethi.Assertion;
import org.apache.rampart.policy.model.RampartConfig;
import org.apache.ws.secpolicy.WSSPolicyException;
import org.apache.ws.secpolicy.model.AsymmetricBinding;
import org.apache.ws.secpolicy.model.Binding;
import org.apache.ws.secpolicy.model.ContentEncryptedElements;
import org.apache.ws.secpolicy.model.EncryptionToken;

```

```

import org.apache.ws.secpolicy.model.Header;
import org.apache.ws.secpolicy.model.InitiatorToken;
import org.apache.ws.secpolicy.model.ProtectionToken;
import org.apache.ws.secpolicy.model.RecipientToken;
import org.apache.ws.secpolicy.model.RequiredElements;
import org.apache.ws.secpolicy.model.SignatureToken;
import org.apache.ws.secpolicy.model.SignedEncryptedElements;
import org.apache.ws.secpolicy.model.SignedEncryptedParts;
import org.apache.ws.secpolicy.model.SupportingToken;
import org.apache.ws.secpolicy.model.SymmetricAsymmetricBindingBase;
import org.apache.ws.secpolicy.model.SymmetricBinding;
import org.apache.ws.secpolicy.model.TokenWrapper;
import org.apache.ws.secpolicy.model.TransportBinding;
import org.apache.ws.secpolicy.model.TransportToken;
import org.apache.ws.secpolicy.model.Trust10;
import org.apache.ws.secpolicy.model.Wss10;
import org.apache.ws.secpolicy.model.Wss11;

import java.util.Iterator;
import java.util.List;

public class RampartPolicyBuilder {

    private static Log log = LogFactory.getLog(RampartPolicyBuilder.class);

    /**
     * Compile the parsed security data into one Policy data block.
     *
     * This methods loops over all top level Policy Engine data elements,
     * extracts the parsed parameters and sets them into a single data block.
     * During this processing the method prepares the parameters in a format
     * that is ready for processing by the WSS4J functions.
     *
     * <p/>
     *
     * The WSS4J policy enabled handler takes this data block to control the
     * setup of the security header.
     *
     * @param topLevelAssertions
     *     The iterator of the top level policy assertions
     * @return The compile Poilcy data block.
     * @throws WSSPolicyException
     */
    public static RampartPolicyData build(List topLevelAssertions)
        throws WSSPolicyException {

        RampartPolicyData rpd = new RampartPolicyData();

```

```

for (Iterator iter = topLevelAssertions.iterator(); iter.hasNext();) {
    Assertion assertion = (Assertion) iter.next();
    if (assertion instanceof Binding) {

        setWebServiceSecurityPolicyNS(assertion, rpd);

        if (assertion instanceof SymmetricBinding) {
            processSymmetricPolicyBinding((SymmetricBinding) assertion, rpd);
        } else if (assertion instanceof AsymmetricBinding) {
            processAsymmetricPolicyBinding((AsymmetricBinding) assertion, rpd);
        } else {
            processTransportBinding((TransportBinding) assertion, rpd);
        }

        /*
         * Don't change the order of Wss11 / Wss10 instance checks
         * because Wss11 extends Wss10 - thus first check Wss11.
         */
        } else if (assertion instanceof Wss11) {
            processWSS11((Wss11) assertion, rpd);
        } else if (assertion instanceof Wss10) {
            processWSS10((Wss10) assertion, rpd);
        } else if (assertion instanceof SignedEncryptedElements) {
            processSignedEncryptedElements((SignedEncryptedElements) assertion,
                rpd);
        } else if (assertion instanceof SignedEncryptedParts) {
            processSignedEncryptedParts((SignedEncryptedParts) assertion, rpd);
        } else if (assertion instanceof RequiredElements) {
            processRequiredElements((RequiredElements) assertion, rpd);
        } else if (assertion instanceof ContentEncryptedElements) {
            processContentEncryptedElements((ContentEncryptedElements) assertion, rpd);
        } else if (assertion instanceof SupportingToken) {

            //Set policy version. Cos a supporting token can appear along without a binding
            setWebServiceSecurityPolicyNS(assertion, rpd);

            processSupportingTokens((SupportingToken) assertion, rpd);
        } else if (assertion instanceof Trust10) {
            processTrust10((Trust10) assertion, rpd);
        } else if (assertion instanceof RampartConfig) {
            processRampartConfig((RampartConfig) assertion, rpd);
        } else if (assertion instanceof MTOMAssertion) {
            processMTOMSerialization((MTOMAssertion) assertion, rpd);
        } else {
            if (log.isDebugEnabled()) {
                log.debug("Unknown top level PED found: "
                    + assertion.getClass().getName());
            }
        }
    }
}

```



```

    }
}

return rpd;
}

/**
 * Sets web service security policy version. The policy version is extracted from an assertion.
 * But if namespace is already set this method will just return.
 * @param assertion The assertion to get policy namespace.
 */
private static void setWebServiceSecurityPolicyNS(Assertion assertion, RampartPolicyData policyData) {

    if (policyData.getWebServiceSecurityPolicyNS() == null) {
        policyData.setWebServiceSecurityPolicyNS(assertion.getName().getNamespaceURI());
    }
}

/**
 * @param binding
 * @param rpd
 */
private static void processTransportBinding(TransportBinding binding, RampartPolicyData rpd) {
    binding(binding, rpd);
    rpd.setTransportBinding(true);
    rpd.setTokenProtection(binding.isTokenProtection());
    TransportToken transportToken = binding.getTransportToken();
    if ( transportToken != null ) {
        rpd.setTransportToken(transportToken.getTransportToken());
    }
}

/**
 * Add TRust10 assertion info into rampart policy data
 * @param trust10
 * @param rpd
 */
private static void processTrust10(Trust10 trust10, RampartPolicyData rpd) {
    rpd.setTrust10(trust10);
}

/**
 * Add the rampart configuration information into rampart policy data.
 * @param config
 * @param rpd
 */

```

```

private static void processRampartConfig(RampartConfig config, RampartPolicyData rpd) {
    rpd.setRampartConfig(config);
}

/**
 * Evaluate the symmetric policy binding data.
 *
 * @param symmBinding
 *     The binding data
 * @param rpd
 *     The WSS4J data to initialize
 * @throws WSSPolicyException
 */
private static void processSymmetricPolicyBinding(
    SymmetricBinding symmBinding, RampartPolicyData rpd)
    throws WSSPolicyException {
    rpd.setSymmetricBinding(true);
    binding(symmBinding, rpd);
    symmAsymmBinding(symmBinding, rpd);
    symmetricBinding(symmBinding, rpd);
}

private static void processWSS10(Wss10 wss10, RampartPolicyData rpd) {
    rpd.setWss10(wss10);
}

/**
 * Evaluate the asymmetric policy binding data.
 *
 * @param binding
 *     The binding data
 * @param rpd
 *     The WSS4J data to initialize
 * @throws WSSPolicyException
 */
private static void processAsymmetricPolicyBinding(
    AsymmetricBinding binding, RampartPolicyData rpd)
    throws WSSPolicyException {
    rpd.setAsymmetricBinding(true);
    binding(binding, rpd);
    symmAsymmBinding(binding, rpd);
    asymmetricBinding(binding, rpd);
}

private static void processWSS11(Wss11 wss11, RampartPolicyData rpd) {
    rpd.setSignatureConfirmation(wss11.isRequireSignatureConfirmation());
    rpd.setWss11(wss11);
}

```

```

/**
 * Populate elements to sign and/or encrypt with the message tokens.
 *
 * @param see
 *     The data describing the elements (XPath)
 * @param rpd
 *     The WSS4J data to initialize
 */
private static void processSignedEncryptedElements(
    SignedEncryptedElements see, RampartPolicyData rpd) {
    Iterator it = see.getXPathExpressions().iterator();
    if (see.isSignedElements()) {
        while (it.hasNext()) {
            rpd.setSignedElements((String) it.next());
        }
    } else {
        while (it.hasNext()) {
            rpd.setEncryptedElements((String) it.next());
        }
    }
    rpd.addDeclaredNamespaces(see.getDeclaredNamespaces());
}

/**
 * Populate parts to sign and/or encrypt with the message tokens.
 *
 * @param sep
 *     The data describing the parts
 * @param rpd
 *     The WSS4J data to initialize
 */
private static void processSignedEncryptedParts(SignedEncryptedParts sep,
    RampartPolicyData rpd) {
    Iterator it = sep.getHeaders().iterator();
    if (sep.isSignedParts()) {
        rpd.setSignBody(sep.isBody());
        rpd.setSignAttachments(sep.isAttachments());
        rpd.setSignAllHeaders(sep.isSignAllHeaders());
        rpd.setSignBodyOptional(sep.isOptional());
        rpd.setSignAttachmentsOptional(sep.isOptional());
        while (it.hasNext()) {
            Header header = (Header) it.next();
            rpd.addSignedPart(header.getNamespace(), header.getName());
        }
    } else {
        rpd.setEncryptBody(sep.isBody());
        rpd.setEncryptAttachments(sep.isAttachments());
    }
}

```

```

    rpd.setEncryptBodyOptional(sep.isOptional());
    rpd.setEncryptAttachmentsOptional(sep.isOptional());
    while (it.hasNext()) {
        Header header = (Header) it.next();
        rpd.setEncryptedParts(header.getNamespace(), header.getName(),"Header");
    }
}
}

private static void processContentEncryptedElements(ContentEncryptedElements cee,
    RampartPolicyData rpd) {

    Iterator it = cee.getXPathExpressions().iterator();
    while (it.hasNext()) {
        rpd.setContentEncryptedElements((String) it.next());
    }
    rpd.addDeclaredNamespaces(cee.getDeclaredNamespaces());
}

private static void processRequiredElements(RequiredElements req,
    RampartPolicyData rpd) {

    Iterator it = req.getXPathExpressions().iterator();
    while (it.hasNext()) {
        rpd.setRequiredElements((String) it.next());
    }
    rpd.addDeclaredNamespaces(req.getDeclaredNamespaces());
}
/**
 * Evaluate policy data that is common to all bindings.
 *
 * @param binding
 *     The common binding data
 * @param rpd
 *     The WSS4J data to initialize
 */
private static void binding(Binding binding, RampartPolicyData rpd) {
    rpd.setLayout(binding.getLayout().getValue());
    rpd.setIncludeTimestamp(binding.isIncludeTimestamp());
    rpd.setIncludeTimestampOptional(binding.isIncludeTimestampOptional());
    rpd.setAlgorithmSuite(binding.getAlgorithmSuite());
}

/**
 * Evaluate policy data that is common to symmetric and asymmetric bindings.
 *
 * @param binding
 *     The symmetric/asymmetric binding data

```

```

* @param rpd
*     The WSS4J data to initialize
*/
private static void symmAsymmBinding(
    SymmetricAsymmetricBindingBase binding, RampartPolicyData rpd) {
    rpd.setEntireHeadersAndBodySignatures(binding
        .isEntireHeadersAndBodySignatures());
    rpd.setProtectionOrder(binding.getProtectionOrder());
    rpd.setSignatureProtection(binding.isSignatureProtection());
    rpd.setTokenProtection(binding.isTokenProtection());
    rpd.setAlgorithmSuite(binding.getAlgorithmSuite());
}

/**
* Evaluate policy data that is specific to symmetric binding.
*
* @param binding
*     The symmetric binding data
* @param rpd
*     The WSS4J data to initialize
*/
private static void symmetricBinding(SymmetricBinding binding,
    RampartPolicyData rpd) throws WSSPolicyException {
    Assertion token = binding.getProtectionToken();

    if (token != null) {
        rpd.setProtectionToken(((ProtectionToken)token).getProtectionToken());
    } else {
        Assertion encrToken = binding.getEncryptionToken();
        Assertion sigToken = binding.getSignatureToken();
        if (token == null && sigToken == null) {
            throw new WSSPolicyException("Symmetric binding should have a Protection token or" +
                " both Signature and Encryption tokens defined");
        }
        rpd.setEncryptionToken(
            ((EncryptionToken) encrToken).getEncryptionToken());
        rpd.setSignatureToken(((SignatureToken) sigToken).getSignatureToken());
    }
}

/**
* Evaluate policy data that is specific to asymmetric binding.
*
* @param binding
*     The asymmetric binding data
* @param rpd
*     The WSS4J data to initialize
*/

```

```

private static void asymmetricBinding(AsymmetricBinding binding,
    RampartPolicyData rpd) throws WSSPolicyException {
    TokenWrapper tokWrapper = binding.getRecipientToken();
    TokenWrapper tokWrapper1 = binding.getInitiatorToken();
    if (tokWrapper == null || tokWrapper1 == null) {
        throw new WSSPolicyException("Asymmetric binding should have both Initiator and " +
            "Recipient tokens defined");
    }
    rpd.setRecipientToken(((RecipientToken) tokWrapper).getReceipientToken());
    rpd.setInitiatorToken(((InitiatorToken) tokWrapper1).getInitiatorToken());
}

private static void processSupportingTokens(SupportingToken token,
    RampartPolicyData rpd) throws WSSPolicyException {
    rpd.setSupportingTokens(token);
}

private static void processMTOMSerialization(MTOMAssertion mtomAssertion, RampartPolicyData rpd)
{
    rpd.setMTOMAssertion(mtomAssertion);
}
}

```

1.1012 rampart-policy 1.6.1.wso2v12

1.1012.1 Available under license :

```

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.apache.ws.secpolicy;

public class WSSPolicyException extends Exception {

```

```

private static final long serialVersionUID = 5904800255533588133L;

public WSSPolicyException(String message, Throwable e) {
    super(message, e);
}

public WSSPolicyException(String message) {
    super(message);
}

}

```

1.1013 rampart-trust 1.6.1.wso2v12

1.1013.1 Available under license :

```

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 */

```

```

package org.apache.rahas;

import org.apache.axiom.om.OMElement;
import org.apache.axis2.context.MessageContext;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.rahas.impl.AbstractIssuerConfig;
import org.apache.rahas.impl.SAMLTokenIssuerConfig;
import org.apache.ws.security.WSConstants;
import org.apache.ws.security.message.token.Reference;

import javax.xml.namespace.QName;
import java.io.Serializable;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Hashtable;

```

```

import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.concurrent.locks.Lock;
import java.util.concurrent.locks.ReadWriteLock;
import java.util.concurrent.locks.ReentrantReadWriteLock;

/**
 * In-memory implementation of the token storage
 */
public class SimpleTokenStore implements TokenStorage, Serializable {

    private static Log log = LogFactory.getLog(SimpleTokenStore.class);

    protected Map tokens = new Hashtable();

    protected transient volatile Boolean tokenStoreDisabled = null;

    /*If a persister is configured to handle non-volatile storage of tokens, take a reference to it*/
    protected transient TokenPersister tokenPersister = null;

    protected transient Integer maxInMemoryTokens = null;

    private static final int DEFAULT_IN_MEMORY_THRESHOLD = 500;

    //maintains a list of ids of the tokens in persistence.
    protected List<String> persistedTokenIDList = new ArrayList<String>();

    /**
     * We use a read write lock to improve concurrency while avoiding concurrent modification
     * exceptions. We allow concurrent reads and avoid concurrent reads and modifications
     * ReentrantReadWriteLock supports a maximum of 65535 recursive write locks and 65535 read locks
     */
    protected final ReadWriteLock readWriteLock = new ReentrantReadWriteLock();

    protected final Lock readLock = readWriteLock.readLock();

    protected final Lock writeLock = readWriteLock.writeLock();

    public void add(Token token) throws TrustException {
        //check whether a token persister is configured.
        if (tokenPersister == null) {
            getTokenPersister();
        }
        //if a token persister is not configured, continue with in-memory one.
        if (tokenPersister == null) {
            if (token != null && !"".equals(token.getId()) && token.getId() != null) {

```



```

writeLock.lock();

try {
    if (this.tokens.keySet().size() == 0
        || ((this.tokens.keySet().size() > 0) && !this.tokens.keySet().contains(
            token.getId())) {

        tokens.put(token.getId(), token);

    } else {
        throw new TrustException("tokenAlreadyExists", new String[]{token.getId()});
    }
} finally {
    writeLock.unlock();
}
}

} else { //if a token persister is configured, handle persistence
getThreshold();

if (token != null && !"".equals(token.getId()) && token.getId() != null) {
    /* if this is the first time that the store is used, try to load
    persisted tokens list from file system */
    if ((this.tokens.keySet().size() == 0) && (this.persistedTokenIDList.size() == 0)) {
        populatePersistedTokenIDs();
    }
    writeLock.lock();

    try {
        if (this.tokens.keySet().size() == 0
            || ((this.tokens.keySet().size() > 0) && (tokens.keySet().size() < maxInMemoryTokens)
                && !isTokenExist(token.getId())) {

            tokens.put(token.getId(), token);

        } else if (((tokens.keySet().size() == maxInMemoryTokens) ||
            (tokens.keySet().size() > maxInMemoryTokens)) &&
            (!isTokenExist(token.getId()))) {
            //notify persister
            tokenPersister.notifyPersistence();

            //add token to the store
            tokens.put(token.getId(), token);

        } else {
            throw new TrustException("tokenAlreadyExists", new String[]{token.getId()});
        }
    } finally {
        writeLock.unlock();
    }
}
}

```

```

    }
  }
}

public void update(Token token) throws TrustException {
  if (tokenPersister == null) {
    getTokenPersister();
  }
  if (tokenPersister == null) {

    if (token != null && token.getId() != null && token.getId().trim().length() != 0) {

      writeLock.lock();

      try {
        if (!this.tokens.keySet().contains(token.getId())) {
          throw new TrustException("noTokenToUpdate", new String[]{token.getId()});
        }
        this.tokens.put(token.getId(), token);
      } finally {
        writeLock.unlock();
      }
    }
  } else {
    /* if this is the first time that the store is used, try to load
    persisted tokens list from file system */
    if ((this.tokens.keySet().size() == 0) && (this.persistedTokenIDList.size() == 0)) {
      populatePersistedTokenIDs();
    }
    if (token != null && token.getId() != null && token.getId().trim().length() != 0) {
      writeLock.lock();
      try {
        if (this.tokens.containsKey(token.getId())) {
          this.tokens.put(token.getId(), token);
        } else if (this.persistedTokenIDList.contains(token.getId())) {
          if (tokenPersister.isTokenExist(token.getId())) {
            tokenPersister.updateToken(token);
          }
        } else {
          throw new TrustException("noTokenToUpdate", new String[]{token.getId()});
        }
      } finally {
        writeLock.unlock();
      }
    }
  }
}

```

```

public String[] getTokenIdentifiers() throws TrustException {
    List identifiers = new ArrayList();
    if (tokenPersister == null) {
        getTokenPersister();
    }
    if (tokenPersister == null) {

        readLock.lock();
        try {
            for (Iterator iterator = tokens.keySet().iterator(); iterator.hasNext();) {
                identifiers.add(iterator.next());
            }
        } finally {
            readLock.unlock();
        }
        return (String[]) identifiers.toArray(new String[identifiers.size()]);
    } else {
        /* if this is the first time that the store is used, try to load
        persisted tokens list from file system */
        if ((this.tokens.keySet().size() == 0) && (this.persistedTokenIDList.size() == 0)) {
            populatePersistedTokenIDs();
        }
        readLock.lock();
        try {
            for (Iterator iterator = tokens.keySet().iterator(); iterator.hasNext();) {
                identifiers.add(iterator.next());
            }
            if (persistedTokenIDList.size() != 0) {
                for (Object persistedTokenID : persistedTokenIDList) {
                    identifiers.add(persistedTokenID);
                }
            }
            return (String[]) identifiers.toArray(new String[identifiers.size()]);
        } finally {
            readLock.unlock();
        }
    }
    return (String[]) identifiers.toArray(new String[identifiers.size()]);
}

public Token[] getValidTokens() throws TrustException {
    return getTokens(new int[]{Token.ISSUED, Token.RENEWED});
}

public Token[] getRenewedTokens() throws TrustException {
    return getTokens(Token.RENEWED);
}

```

```

public Token[] getCancelledTokens() throws TrustException {
    return getTokens(Token.CANCELLED);
}

public Token[] getExpiredTokens() throws TrustException {
    return getTokens(Token.EXPIRED);
}
//TODO:handle persistence if enabled.
private Token[] getTokens(int[] states) throws TrustException {
    processTokenExpiry();
    List tokens = new ArrayList();

    readLock.lock();

    try {
        for (Iterator iterator = this.tokens.values().iterator(); iterator.hasNext();) {
            Token token = (Token) iterator.next();
            for (int i = 0; i < states.length; i++) {
                if (token.getState() == states[i]) {
                    tokens.add(token);
                    break;
                }
            }
        }
    } finally {
        readLock.unlock();
    }
    return (Token[]) tokens.toArray(new Token[tokens.size()]);
}
//TODO:handle persistence if enabled.
private Token[] getTokens(int state) throws TrustException {
    processTokenExpiry();
    List tokens = new ArrayList();

    readLock.lock();

    try {
        for (Iterator iterator = this.tokens.values().iterator(); iterator.hasNext();) {
            Token token = (Token) iterator.next();
            if (token.getState() == state) {
                tokens.add(token);
            }
        }
    } finally {
        readLock.unlock();
    }
}

```

```

return (Token[]) tokens.toArray(new Token[tokens.size()]);
}

public Token getToken(String id) throws TrustException {
    if (tokenPersister == null) {
        getTokenPersister();
    }
    Token token = null;
    if (tokenPersister == null) {
        token = getTokenFromMemory(id);
    } else {
        /* if this is the first time that the store is used, try to load
        persisted tokens list from file system */
        if ((this.tokens.keySet().size() == 0) && (this.persistedTokenIDList.size() == 0)) {
            populatePersistedTokenIDs();
        }
        token = getTokenFromMemory(id);
        if (token == null) {
            readLock.lock();
            try {
                //get from the persistence storage
                if (persistedTokenIDList.contains(id)) {
                    if (tokenPersister.isTokenExist(id)) {
                        token = tokenPersister.retrieveToken(id);
                        //process if the token is expired
                        setIfTokenExpired(token);
                    }
                } else {
                    for (String tokenID : persistedTokenIDList) {
                        Token tempToken = tokenPersister.retrieveToken(tokenID);
                        OMElement elem = tempToken.getAttachedReference();
                        if (elem != null && tokenID.equals(this.getIdFromSTR(elem))) {
                            token = tempToken;
                            break; //exit loop if token found, assuming tokenID is unique.
                        }
                        elem = tempToken.getUnattachedReference();
                        if (elem != null && tokenID.equals(this.getIdFromSTR(elem))) {
                            token = tempToken;
                            break; //exit loop if token found, assuming tokenID is unique.
                        }
                    }
                }
            } finally {
                readLock.unlock();
            }
        }
    }
    return token;
}

```

```

}

private Token getTokenFromMemory(String tokenID) throws TrustException {
    processTokenExpiry();

    readLock.lock();
    Token token;
    try {

        token = (Token) this.tokens.get(tokenID);

        if (token == null) {
            //Try to find the token using attached refs & unattached refs
            for (Iterator iterator = this.tokens.values().iterator(); iterator.hasNext();) {
                Token tempToken = (Token) iterator.next();
                OMElement elem = tempToken.getAttachedReference();
                if (elem != null && tokenID.equals(this.getIdFromSTR(elem))) {
                    token = tempToken;
                    break; //exit loop if token found, assuming tokenID is unique.//TODO:double check
                }
                elem = tempToken.getUnattachedReference();
                if (elem != null && tokenID.equals(this.getIdFromSTR(elem))) {
                    token = tempToken;
                    break; //exit loop if token found, assuming tokenID is unique.
                }
            }
        }

    } finally {
        readLock.unlock();
    }
    return token;
}

public void removeToken(String id) throws TrustException {
    if (tokenPersister == null) {
        getTokenPersister();
    }
    if (tokenPersister == null) {
        writeLock.lock();
        try {
            this.tokens.remove(id);
        } finally {
            writeLock.unlock();
        }
    } else {
        /* if this is the first time that the store is used, try to load
        persisted tokens list from file system */
    }
}

```

```

        if ((this.tokens.keySet().size() == 0) && (this.persistedTokenIDList.size() == 0)) {
            populatePersistedTokenIDs();
        }
        writeLock.lock();
        try {
            if (tokens.containsKey(id)) {
                this.tokens.remove(id);
            } else if (persistedTokenIDList.contains(id)) {
                if (tokenPersister.isTokenExist(id)) {
                    tokenPersister.deleteToken(id);
                    persistedTokenIDList.remove(id);
                }
            } else {
                String errorMsg = "Token to be removed doesn't exist.";
                log.error(errorMsg);
                throw new TrustException(errorMsg);
            }
        } finally {
            writeLock.unlock();
        }
    }
}

/**
 * Get the tokens in memory to a list and return. Not called by multiple threads, hence no
 * double checked locking.
 * @return
 * @throws TrustException
 */
public List<Token> getStorageTokens() throws TrustException {
    List<Token> storageTokenList = new ArrayList<Token>();
    readLock.lock();

    try {
        for (Iterator iterator = tokens.values().iterator(); iterator.hasNext();) {
            Token token = (Token) iterator.next();
            storageTokenList.add(token);
        }
    } finally {
        readLock.unlock();
    }
    return storageTokenList;
}

public void handlePersistence(List<?> persistingTokens) throws TrustException {
    if (tokenPersister == null) {
        getTokenPersister();
    }
}

```

```

for (Object persistingToken : persistingTokens) {
    String persistingTokenID = null;
    writeLock.lock();
    try {
        persistingTokenID = (String) persistingToken;
        //persist the token using persistence mechanism provided by persister
        if (((Token) tokens.get(persistingTokenID)).isPersistenceEnabled()) {
            tokenPersister.persistToken((Token) tokens.get(persistingTokenID));
        }
        //remove the token from in memory map
        tokens.remove(persistingTokenID);
        //add token ID to persisted tokens list
        persistedTokenIDList.add(persistingTokenID);
    } catch (TrustException e) {
        String errorMsg = "Error in persisting token: " + persistingTokenID;
        log.error(errorMsg, e);
        throw new TrustException(errorMsg, e);
    } finally {
        writeLock.unlock();
    }
}
}

public void handlePersistenceOnShutdown() throws TrustException {
    if (tokenPersister == null) {
        getTokenPersister();
    }
    if (tokenPersister != null) {
        readLock.lock();
        try {
            for (Object token : tokens.values()) {
                if (((Token) token).isPersistenceEnabled()) {
                    tokenPersister.persistToken((Token) token);
                }
            }
        } catch (TrustException e) {
            String errorMessage = "Error in persisting tokens on module shut down..";
            log.error(errorMessage, e);
            throw new TrustException(errorMessage, e);
        } finally {
            readLock.unlock();
        }
    }
}

protected void processTokenExpiry() throws TrustException {
    readLock.lock();

```



```

try {
    for (Iterator iterator = tokens.values().iterator(); iterator.hasNext();) {
        Token token = (Token) iterator.next();
        setIfTokenExpired(token);
    }
} finally {
    readLock.unlock();
}
}

public synchronized static String getIdFromSTR(OMElement str) {
    //ASSUMPTION:SecurityTokenReference/KeyIdentifier
    OMElement child = str.getFirstElement();
    if (child == null) {
        return null;
    }

    if (child.getQName().equals(new QName(WSConstants.SIG_NS, "KeyInfo"))) {
        return child.getText();
    } else if (child.getQName().equals(Reference.TOKEN)) {
        String uri = child.getAttributeValue(new QName("URI"));
        if (uri.charAt(0) == '#') {
            uri = uri.substring(1);
        }
        return uri;
    } else {
        return null;
    }
}

private void getTokenPersister() {
    if (MessageContext.getCurrentMessageContext() != null) {
        if (tokenPersister == null) {
            synchronized (this) {
                if (tokenPersister == null) {
                    tokenPersister = (TokenPersister) MessageContext.getCurrentMessageContext()
                        .getConfigurationContext().getProperty(TokenPersister.TOKEN_PERSISTER_KEY);
                }
            }
        }
    }
}

private void getThreshold() throws TrustException {
    try {
        //TODO:why there is no interface for issuer config? this is coupled to SAMLTokenIssuerConfig..
        if (maxInMemoryTokens == null) {

```

```

        synchronized (this) {
            if (maxInMemoryTokens == null) {
                if (MessageContext.getCurrentMessageContext() != null) {
                    SAMLTokenIssuerConfig issuerConfig = (SAMLTokenIssuerConfig)
MessageContext.getCurrentMessageContext().getProperty(STSConstants.KEY_ISSUER_CONFIG);
                    maxInMemoryTokens = Integer.parseInt(issuerConfig.getPersisterPropertyMap().get(
                        AbstractIssuerConfig.LOCAL_PROPERTY_THRESHOLD).toString());
                }
            }
        }
        //if not provided in config, use a default value.
        if (maxInMemoryTokens == null) {
            maxInMemoryTokens = DEFAULT_IN_MEMORY_THRESHOLD;
        }
    } catch (NumberFormatException e) {
        String errorMessage = "errorReadingStorageThreshold";
        log.error(errorMessage, e);
        throw new TrustException(errorMessage, e);
    }
}
//this should be called inside a read lock
private boolean isTokenExist(String tokenId) {
    return this.tokens.keySet().contains(tokenId) || persistedTokenIDList.contains(tokenId);
}

//this should not be called inside any locks.
private void populatePersistedTokenIDs() {
    if (persistedTokenIDList.size() == 0) {
        synchronized (this) {
            if (persistedTokenIDList.size() == 0) {
                if (tokenPersister.isTokensExist()) {
                    String[] persistedTokenIDs = tokenPersister.retrieveTokenIDs();
                    if (persistedTokenIDs != null) {
                        writeLock.lock();
                        try {
                            persistedTokenIDList.addAll(Arrays.asList(persistedTokenIDs));
                        } finally {
                            writeLock.unlock();
                        }
                    }
                }
            }
        }
    }
}
//this should be called inside a read/write lock
private void setIfTokenExpired(Token token) {

```

```

    if (token.getExpires() != null &&
        token.getExpires().getTime() < System.currentTimeMillis()) {
        token.setState(Token.EXPIRED);
    }
}

//we do not disable the token store completely, disable only for saml tokens.
/*private boolean isStorageDisabled() {
    if (tokenStoreDisabled == null) {
        synchronized (this) {
            if (tokenStoreDisabled == null) {
                if (MessageContext.getCurrentMessageContext() != null) {
                    SAMLTokenIssuerConfig issuerConfig = (SAMLTokenIssuerConfig)
                        MessageContext.getCurrentMessageContext().getProperty(
                            STSConstants.KEY_ISSUER_CONFIG);
                    if (issuerConfig != null) {
                        tokenStoreDisabled = issuerConfig.isTokenStoreDisabled();
                        return issuerConfig.isTokenStoreDisabled();
                    }
                }
            }
        }
    } else {
        return tokenStoreDisabled;
    }
    return false; //if not configured, default is false.
}*/
}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
package org.apache.rahas.impl;

import org.apache.rahas.TokenCanceler;
import org.apache.rahas.RahasData;
import org.apache.rahas.TrustException;

```

```

import org.apache.rahas.TrustUtil;
import org.apache.rahas.RahasConstants;
import org.apache.rahas.TokenStorage;
import org.apache.rahas.Token;
import org.apache.ws.security.WSConstants;
import org.apache.ws.security.message.token.Reference;
import org.apache.ws.security.message.token.SecurityTokenReference;
import org.apache.axiom.soap.SOAPEnvelope;
import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.OMAttribute;
import org.apache.axis2.description.Parameter;
import org.apache.axis2.context.MessageContext;

import javax.xml.namespace.QName;

/**
 *
 */
public class TokenCancelerImpl implements TokenCanceler {

    private String configFile;
    private OMElement configElement;
    private String configParamName;

    /**
     * Cancel the token specified in the request.
     *
     * @param data A populated <code>RahasData</code> instance
     * @return Response SOAPEnvelope
     * @throws org.apache.rahas.TrustException
     *
     */
    public SOAPEnvelope cancel(RahasData data) throws TrustException {
        TokenCancelerConfig config = null;
        if (this.configElement != null) {
            config = TokenCancelerConfig.load(configElement.
                getFirstChildWithName(SCTIssuerConfig.SCT_ISSUER_CONFIG));
        }

        // Look for the file
        if (config == null && this.configFile != null) {
            config = TokenCancelerConfig.load(this.configFile);
        }

        // Look for the param
        if (config == null && this.configParamName != null) {
            Parameter param = data.getInMessageContext().getParameter(this.configParamName);
            if (param != null && param.getParameterElement() != null) {

```

```

        config = TokenCancelerConfig.load(param.getParameterElement()
            .getFirstChildWithName(SCTIssuerConfig.SCT_ISSUER_CONFIG));
    } else {
        throw new TrustException("expectedParameterMissing",
            new String[]{this.configParamName});
    }
}

if (config == null) {
    throw new TrustException("missingConfiguration",
        new String[]{SCTIssuerConfig.SCT_ISSUER_CONFIG
            .getLocalPart()});
}

OMEElement rstEle = data.getRstElement();
QName cancelTargetQName = new QName(data.getWstNs(),
RahasConstants.CancelBindingLocalNames.CANCEL_TARGET);
OMEElement cancelTargetEle = rstEle.getFirstChildWithName(cancelTargetQName);
if (cancelTargetEle == null) {
    throw new TrustException("requiredElementNotFound",
        new String[]{cancelTargetQName.toString()});
}
OMEElement secTokenRefEle = cancelTargetEle
    .getFirstChildWithName(new QName(WSSConstants.WSSE_NS,
        SecurityTokenReference.SECURITY_TOKEN_REFERENCE));
String tokenId;
if (secTokenRefEle != null) {

    /*
    <o:SecurityTokenReference
        xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
    <o:Reference URI="urn:uuid:8e6a3a95-fd1b-4c24-96d4-28e875025ff7"
        ValueType="http://schemas.xmlsoap.org/ws/2005/02/sc/sct" />
    </o:SecurityTokenReference>
    */
    OMEElement referenceEle = secTokenRefEle.getFirstChildWithName(Reference.TOKEN);
    if (referenceEle != null) {
        OMAAttribute uri = referenceEle.getAttribute(new QName(
            RahasConstants.CancelBindingLocalNames.URI));
        if (uri != null) {

            tokenId = uri.getAttributeValue();
            if (tokenId.charAt(0) == '#') {
                tokenId = tokenId.substring(1);
            }
        } else {
            throw new TrustException("cannotDetermineTokenId");
        }
    }
}

```

```

    } else {
        throw new TrustException("cannotDetermineTokenId");
    }
} else {
    // TODO: we need to handle situation where the token itself is contained within the
    // TODO: <wst:CancelTarget> element
    throw new TrustException("cannotDetermineTokenId");
}

// Cancel the token
MessageContext inMsgCtx = data.getInMessageContext();
TokenStorage tokenStore = TrustUtil.getTokenStore(inMsgCtx);
Token token = tokenStore.getToken(tokenId);
if (token == null) {
    throw new TrustException("tokenNotFound", new String[]{tokenId});
}
token.setState(Token.CANCELLED);
tokenStore.update(token);

// Create the response SOAP Envelope
SOAPEnvelope responseEnv =
    TrustUtil.
        createSOAPEnvelope(inMsgCtx.getEnvelope().getNamespace().getNamespaceURI());
OMEElement rstrElem;
int version = data.getVersion();
if (RahasConstants.VERSION_05_02 == version) {
    rstrElem = TrustUtil
        .createRequestSecurityTokenResponseElement(version, responseEnv.getBody());
} else {
    OMEElement rstrcElem = TrustUtil
        .createRequestSecurityTokenResponseCollectionElement(
            version, responseEnv.getBody());

    rstrElem = TrustUtil.createRequestSecurityTokenResponseElement(version, rstrcElem);
}
TrustUtil.createRequestedTokenCanceledElement(version, rstrElem);
return responseEnv;
}

/**
 * Set the configuration file of this TokenCanceller.
 * <p/>
 * This is the text value of the <configuration-file> element of the
 * token-dispatcher-configuration
 *
 * @param configFile
 */
public void setConfigurationFile(String configFile) {

```

```

        this.configFile = configFile;
    }

    /**
     * Set the configuration element of this TokenCanceller.
     * <p/>
     * This is the &lt;configuration&gt; element of the
     * token-dispatcher-configuration
     *
     * @param configElement <code>OMEElement</code> representing the configuration
     */
    public void setConfigurationElement(OMEElement configElement) {
        this.configElement = configElement;
    }

    /**
     * Set the name of the configuration parameter.
     * <p/>
     * If this is used then there must be a
     * <code>org.apache.axis2.description.Parameter</code> object available in
     * the via the messageContext when the <code>TokenIssuer</code> is called.
     *
     * @param configParamName
     * @see org.apache.axis2.description.Parameter
     */
    public void setConfigurationParamName(String configParamName) {
        this.configParamName = configParamName;
    }

    /**
     * Returns the <code>wsa:Action</code> of the response.
     *
     * @param data A populated <code>RahasData</code> instance
     * @return Returns the <code>wsa:Action</code> of the response
     * @throws org.apache.rahas.TrustException
     */
    public String getResponseAction(RahasData data) throws TrustException {
        return TrustUtil.getActionValue(data.getVersion(), RahasConstants.RSTR_ACTION_CANCEL);
    }
}

```

1.1014 Rome HTTP Fetcher 1.0.0

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```

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1.1019 sandesha2-core 1.6.1-wso2v1

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 */

package org.springframework.jmx.export.assembler;

import java.lang.reflect.Method;

/**
 * Simple subclass of AbstractReflectiveMBeanInfoAssembler
 * that always votes yes for method and property inclusion, effectively exposing
 * all public methods and properties as operations and attributes.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 1.2
 */
public class SimpleReflectiveMBeanInfoAssembler extends AbstractConfigurableMBeanInfoAssembler {

    /**
     * Always returns true.
     */
    @Override
    protected boolean includeReadAttribute(Method method, String beanKey) {
        return true;
    }

    /**

```

```

    * Always returns <code>true</code>.
    */
    @Override
    protected boolean includeWriteAttribute(Method method, String beanKey) {
        return true;
    }

    /**
     * Always returns <code>true</code>.
     */
    @Override
    protected boolean includeOperation(Method method, String beanKey) {
        return true;
    }
}

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 */

package org.springframework.context;

import java.util.EventObject;

/**
 * Class to be extended by all application events. Abstract as it
 * doesn't make sense for generic events to be published directly.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 */
public abstract class ApplicationEvent extends EventObject {

    /** use serialVersionUID from Spring 1.2 for interoperability */
    private static final long serialVersionUID = 7099057708183571937L;

```

```

/** System time when the event happened */
private final long timestamp;

/**
 * Create a new ApplicationEvent.
 * @param source the component that published the event (never <code>null</code>)
 */
public ApplicationEvent(Object source) {
    super(source);
    this.timestamp = System.currentTimeMillis();
}

/**
 * Return the system time in milliseconds when the event happened.
 */
public final long getTimestamp() {
    return this.timestamp;
}

}
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 */

package org.springframework.context;

import org.springframework.beans.factory.HierarchicalBeanFactory;
import org.springframework.beans.factory.ListableBeanFactory;
import org.springframework.beans.factory.config.AutowireCapableBeanFactory;
import org.springframework.core.env.EnvironmentCapable;
import org.springframework.core.io.support.ResourcePatternResolver;

/**
 * Central interface to provide configuration for an application.

```

```

* This is read-only while the application is running, but may be
* reloaded if the implementation supports this.
*
* <p>An ApplicationContext provides:
* <ul>
* <li>Bean factory methods for accessing application components.
* Inherited from { @link org.springframework.beans.factory.ListableBeanFactory }.
* <li>The ability to load file resources in a generic fashion.
* Inherited from the { @link org.springframework.core.io.ResourceLoader } interface.
* <li>The ability to publish events to registered listeners.
* Inherited from the { @link ApplicationEventPublisher } interface.
* <li>The ability to resolve messages, supporting internationalization.
* Inherited from the { @link MessageSource } interface.
* <li>Inheritance from a parent context. Definitions in a descendant context
* will always take priority. This means, for example, that a single parent
* context can be used by an entire web application, while each servlet has
* its own child context that is independent of that of any other servlet.
* </ul>
*
* <p>In addition to standard { @link org.springframework.beans.factory.BeanFactory }
* lifecycle capabilities, ApplicationContext implementations detect and invoke
* { @link ApplicationContextAware } beans as well as { @link ResourceLoaderAware },
* { @link ApplicationEventPublisherAware } and { @link MessageSourceAware } beans.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see ConfigurableApplicationContext
* @see org.springframework.beans.factory.BeanFactory
* @see org.springframework.core.io.ResourceLoader
*/

```

```

public interface ApplicationContext extends EnvironmentCapable, ListableBeanFactory, HierarchicalBeanFactory,
    MessageSource, ApplicationEventPublisher, ResourcePatternResolver {

```

```

/**
* Return the unique id of this application context.
* @return the unique id of the context, or <code>null</code> if none
*/

```

```
String getId();
```

```

/**
* Return a friendly name for this context.
* @return a display name for this context (never <code>null</code>)
*/

```

```
String getDisplayName();
```

```

/**
* Return the timestamp when this context was first loaded.
* @return the timestamp (ms) when this context was first loaded

```



```

*/
long getStartupDate();

/**
 * Return the parent context, or <code>null</code> if there is no parent
 * and this is the root of the context hierarchy.
 * @return the parent context, or <code>null</code> if there is no parent
 */
ApplicationContext getParent();

/**
 * Expose AutowireCapableBeanFactory functionality for this context.
 * <p>This is not typically used by application code, except for the purpose
 * of initializing bean instances that live outside the application context,
 * applying the Spring bean lifecycle (fully or partly) to them.
 * <p>Alternatively, the internal BeanFactory exposed by the
 * { @link ConfigurableApplicationContext } interface offers access to the
 * AutowireCapableBeanFactory interface too. The present method mainly
 * serves as convenient, specific facility on the ApplicationContext
 * interface itself.
 * @return the AutowireCapableBeanFactory for this context
 * @throws IllegalStateException if the context does not support
 * the AutowireCapableBeanFactory interface or does not hold an autowire-capable
 * bean factory yet (usually if <code>refresh()</code> has never been called)
 * @see ConfigurableApplicationContext#refresh()
 * @see ConfigurableApplicationContext#getBeanFactory()
 */
AutowireCapableBeanFactory getAutowireCapableBeanFactory() throws IllegalStateException;

}
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 */

package org.springframework.context;

```

```

import org.springframework.beans.factory.Aware;

/**
 * Interface to be implemented by any object that wishes to be notified
 * of the ApplicationEventPublisher (typically the ApplicationContext)
 * that it runs in.
 *
 * @author Juergen Hoeller
 * @author Chris Beams
 * @since 1.1.1
 * @see ApplicationContextAware
 */
public interface ApplicationEventPublisherAware extends Aware {

    /**
     * Set the ApplicationEventPublisher that this object runs in.
     * <p>Invoked after population of normal bean properties but before an init
     * callback like InitializingBean's afterPropertiesSet or a custom init-method.
     * Invoked before ApplicationContextAware's setApplicationContext.
     * @param applicationEventPublisher event publisher to be used by this object
     */
    void setApplicationEventPublisher(ApplicationEventPublisher applicationEventPublisher);

}

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 */

package org.springframework.context;

import org.springframework.beans.BeansException;
import org.springframework.beans.factory.Aware;

/**
 * Interface to be implemented by any object that wishes to be notified
 * of the { @link ApplicationContext} that it runs in.

```

*
 * <p>Implementing this interface makes sense for example when an object
 * requires access to a set of collaborating beans. Note that configuration
 * via bean references is preferable to implementing this interface just
 * for bean lookup purposes.
 *
 * <p>This interface can also be implemented if an object needs access to file
 * resources, i.e. wants to call `getResource()`, wants to publish
 * an application event, or requires access to the `MessageSource`. However,
 * it is preferable to implement the more specific { @link ResourceLoaderAware },
 * { @link ApplicationEventPublisherAware } or { @link MessageSourceAware } interface
 * in such a specific scenario.
 *
 * <p>Note that file resource dependencies can also be exposed as bean properties
 * of type { @link org.springframework.core.io.Resource }, populated via Strings
 * with automatic type conversion by the bean factory. This removes the need
 * for implementing any callback interface just for the purpose of accessing
 * a specific file resource.
 *
 * <p>{ @link org.springframework.context.support.ApplicationObjectSupport } is a
 * convenience base class for application objects, implementing this interface.
 *
 * <p>For a list of all bean lifecycle methods, see the
 * { @link org.springframework.beans.factory.BeanFactory BeanFactory javadocs }.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @author Chris Beams
 * @see ResourceLoaderAware
 * @see ApplicationEventPublisherAware
 * @see MessageSourceAware
 * @see org.springframework.context.support.ApplicationObjectSupport
 * @see org.springframework.beans.factory.BeanFactoryAware
 */
 public interface ApplicationContextAware extends Aware {

 /**
 * Set the `ApplicationContext` that this object runs in.
 * Normally this call will be used to initialize the object.
 * <p>Invoked after population of normal bean properties but before an init callback such
 * as { @link org.springframework.beans.factory.InitializingBean#afterPropertiesSet() }
 * or a custom init-method. Invoked after { @link ResourceLoaderAware#setResourceLoader },
 * { @link ApplicationEventPublisherAware#setApplicationEventPublisher } and
 * { @link MessageSourceAware }, if applicable.
 * @param applicationContext the `ApplicationContext` object to be used by this object
 * @throws ApplicationContextException in case of context initialization errors
 * @throws BeansException if thrown by application context methods
 * @see org.springframework.beans.factory.BeanInitializationException

```

*/
void setApplicationContext(ApplicationContext applicationContext) throws BeansException;

}
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* limitations under the License.
*/

package org.springframework.context;

import org.springframework.beans.FatalBeanException;

/**
* Exception thrown during application context initialization.
*
* @author Rod Johnson
*/
public class ApplicationContextException extends FatalBeanException {

/**
* Create a new <code>ApplicationContextException</code>
* with the specified detail message and no root cause.
* @param msg the detail message
*/
public ApplicationContextException(String msg) {
super(msg);
}

/**
* Create a new <code>ApplicationContextException</code>
* with the specified detail message and the given root cause.
* @param msg the detail message
* @param cause the root cause
*/
public ApplicationContextException(String msg, Throwable cause) {
super(msg, cause);
}

```

```

}

}
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 * limitations under the License.
 */

package org.springframework.context.support;

import java.io.IOException;

import org.springframework.beans.BeansException;
import org.springframework.beans.factory.annotation.QualifierAnnotationAutowireCandidateResolver;
import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;
import org.springframework.beans.factory.support.DefaultListableBeanFactory;
import org.springframework.context.ApplicationContext;
import org.springframework.context.ApplicationContextException;
import org.springframework.core.LocalVariableTableParameterNameDiscoverer;

/**
 * Base class for { @link org.springframework.context.ApplicationContext }
 * implementations which are supposed to support multiple calls to { @link #refresh() },
 * creating a new internal bean factory instance every time.
 * Typically (but not necessarily), such a context will be driven by
 * a set of config locations to load bean definitions from.
 *
 * <p>The only method to be implemented by subclasses is { @link #loadBeanDefinitions },
 * which gets invoked on each refresh. A concrete implementation is supposed to load
 * bean definitions into the given
 * { @link org.springframework.beans.factory.support.DefaultListableBeanFactory },
 * typically delegating to one or more specific bean definition readers.
 *
 * <p><b>Note that there is a similar base class for WebApplicationContexts.</b>
 * { @link org.springframework.web.context.support.AbstractRefreshableWebApplicationContext }
 * provides the same subclassing strategy, but additionally pre-implements
 * all context functionality for web environments. There is also a

```

```

* pre-defined way to receive config locations for a web context.
*
* <p>Concrete standalone subclasses of this base class, reading in a
* specific bean definition format, are { @link ClassPathXmlApplicationContext }
* and { @link FileSystemXmlApplicationContext }, which both derive from the
* common { @link AbstractXmlApplicationContext } base class;
* { @link org.springframework.context.annotation.AnnotationConfigApplicationContext }
* supports { @code @Configuration }-annotated classes as a source of bean definitions.
*
* @author Juergen Hoeller
* @author Chris Beams
* @since 1.1.3
* @see #loadBeanDefinitions
* @see org.springframework.beans.factory.support.DefaultListableBeanFactory
* @see org.springframework.web.context.support.AbstractRefreshableWebApplicationContext
* @see AbstractXmlApplicationContext
* @see ClassPathXmlApplicationContext
* @see FileSystemXmlApplicationContext
* @see org.springframework.context.annotation.AnnotationConfigApplicationContext
*/
public abstract class AbstractRefreshableApplicationContext extends AbstractApplicationContext {

    private Boolean allowBeanDefinitionOverriding;

    private Boolean allowCircularReferences;

    /** Bean factory for this context */
    private DefaultListableBeanFactory beanFactory;

    /** Synchronization monitor for the internal BeanFactory */
    private final Object beanFactoryMonitor = new Object();

    /**
     * Create a new AbstractRefreshableApplicationContext with no parent.
     */
    public AbstractRefreshableApplicationContext() {
    }

    /**
     * Create a new AbstractRefreshableApplicationContext with the given parent context.
     * @param parent the parent context
     */
    public AbstractRefreshableApplicationContext(ApplicationContext parent) {
        super(parent);
    }
}

```

```

/**
 * Set whether it should be allowed to override bean definitions by registering
 * a different definition with the same name, automatically replacing the former.
 * If not, an exception will be thrown. Default is "true".
 * @see
org.springframework.beans.factory.support.DefaultListableBeanFactory#setAllowBeanDefinitionOverriding
*/
public void setAllowBeanDefinitionOverriding(boolean allowBeanDefinitionOverriding) {
    this.allowBeanDefinitionOverriding = allowBeanDefinitionOverriding;
}

/**
 * Set whether to allow circular references between beans - and automatically
 * try to resolve them.
 * <p>Default is "true". Turn this off to throw an exception when encountering
 * a circular reference, disallowing them completely.
 * @see org.springframework.beans.factory.support.DefaultListableBeanFactory#setAllowCircularReferences
*/
public void setAllowCircularReferences(boolean allowCircularReferences) {
    this.allowCircularReferences = allowCircularReferences;
}

/**
 * This implementation performs an actual refresh of this context's underlying
 * bean factory, shutting down the previous bean factory (if any) and
 * initializing a fresh bean factory for the next phase of the context's lifecycle.
*/
@Override
protected final void refreshBeanFactory() throws BeansException {
    if (hasBeanFactory()) {
        destroyBeans();
        closeBeanFactory();
    }
    try {
        DefaultListableBeanFactory beanFactory = createBeanFactory();
        beanFactory.setSerializationId(getId());
        customizeBeanFactory(beanFactory);
        loadBeanDefinitions(beanFactory);
        synchronized (this.beanFactoryMonitor) {
            this.beanFactory = beanFactory;
        }
    }
    catch (IOException ex) {
        throw new ApplicationContextException("I/O error parsing bean definition source for " + getDisplayName(), ex);
    }
}

```

```

@Override
protected void cancelRefresh(BeansException ex) {
    synchronized (this.beanFactoryMonitor) {
        if (this.beanFactory != null)
            this.beanFactory.setSerializationId(null);
    }
    super.cancelRefresh(ex);
}

@Override
protected final void closeBeanFactory() {
    synchronized (this.beanFactoryMonitor) {
        this.beanFactory.setSerializationId(null);
        this.beanFactory = null;
    }
}

/**
 * Determine whether this context currently holds a bean factory,
 * i.e. has been refreshed at least once and not been closed yet.
 */
protected final boolean hasBeanFactory() {
    synchronized (this.beanFactoryMonitor) {
        return (this.beanFactory != null);
    }
}

@Override
public final ConfigurableListableBeanFactory getBeanFactory() {
    synchronized (this.beanFactoryMonitor) {
        if (this.beanFactory == null) {
            throw new IllegalStateException("BeanFactory not initialized or already closed - " +
                "call 'refresh' before accessing beans via the ApplicationContext");
        }
        return this.beanFactory;
    }
}

/**
 * Create an internal bean factory for this context.
 * Called for each {@link #refresh()} attempt.
 * <p>The default implementation creates a
 * {@link org.springframework.beans.factory.support.DefaultListableBeanFactory}
 * with the {@link #getInternalParentBeanFactory()} internal bean factory} of this
 * context's parent as parent bean factory. Can be overridden in subclasses,
 * for example to customize DefaultListableBeanFactory's settings.
 * @return the bean factory for this context

```



```

* @see
org.springframework.beans.factory.support.DefaultListableBeanFactory#setAllowBeanDefinitionOverriding
* @see org.springframework.beans.factory.support.DefaultListableBeanFactory#setAllowEagerClassLoading
* @see org.springframework.beans.factory.support.DefaultListableBeanFactory#setAllowCircularReferences
* @see
org.springframework.beans.factory.support.DefaultListableBeanFactory#setAllowRawInjectionDespiteWrapping
*/
protected DefaultListableBeanFactory createBeanFactory() {
    return new DefaultListableBeanFactory(getInternalParentBeanFactory());
}

/**
* Customize the internal bean factory used by this context.
* Called for each { @link #refresh()} attempt.
* <p>The default implementation applies this context's
* { @linkplain #setAllowBeanDefinitionOverriding "allowBeanDefinitionOverriding"}
* and { @linkplain #setAllowCircularReferences "allowCircularReferences"} settings,
* if specified. Can be overridden in subclasses to customize any of
* { @link DefaultListableBeanFactory}'s settings.
* @param beanFactory the newly created bean factory for this context
* @see DefaultListableBeanFactory#setAllowBeanDefinitionOverriding
* @see DefaultListableBeanFactory#setAllowCircularReferences
* @see DefaultListableBeanFactory#setAllowRawInjectionDespiteWrapping
* @see DefaultListableBeanFactory#setAllowEagerClassLoading
*/
protected void customizeBeanFactory(DefaultListableBeanFactory beanFactory) {
    if (this.allowBeanDefinitionOverriding != null) {
        beanFactory.setAllowBeanDefinitionOverriding(this.allowBeanDefinitionOverriding);
    }
    if (this.allowCircularReferences != null) {
        beanFactory.setAllowCircularReferences(this.allowCircularReferences);
    }
    beanFactory.setAutowireCandidateResolver(new QualifierAnnotationAutowireCandidateResolver());
}

/**
* Load bean definitions into the given bean factory, typically through
* delegating to one or more bean definition readers.
* @param beanFactory the bean factory to load bean definitions into
* @throws BeansException if parsing of the bean definitions failed
* @throws IOException if loading of bean definition files failed
* @see org.springframework.beans.factory.support.PropertiesBeanDefinitionReader
* @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
*/
protected abstract void loadBeanDefinitions(DefaultListableBeanFactory beanFactory)
    throws BeansException, IOException;
}

```

```

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.springframework.context.support;

import java.io.IOException;

import org.springframework.beans.BeansException;
import org.springframework.beans.factory.support.DefaultListableBeanFactory;
import org.springframework.beans.factory.xml.ResourceEntityResolver;
import org.springframework.beans.factory.xml.XmlBeanDefinitionReader;
import org.springframework.context.ApplicationContext;
import org.springframework.core.io.Resource;

/**
 * Convenient base class for { @link org.springframework.context.ApplicationContext }
 * implementations, drawing configuration from XML documents containing bean definitions
 * understood by an { @link org.springframework.beans.factory.xml.XmlBeanDefinitionReader }.
 *
 * <p>Subclasses just have to implement the { @link #getConfigResources } and/or
 * the { @link #getConfigLocations } method. Furthermore, they might override
 * the { @link #getResourceByPath } hook to interpret relative paths in an
 * environment-specific fashion, and/or { @link #getResourcePatternResolver }
 * for extended pattern resolution.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see #getConfigResources
 * @see #getConfigLocations
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
 */
public abstract class AbstractXmlApplicationContext extends AbstractRefreshableConfigApplicationContext {

    private boolean validating = true;

```

```

/**
 * Create a new AbstractXmlApplicationContext with no parent.
 */
public AbstractXmlApplicationContext() {
}

/**
 * Create a new AbstractXmlApplicationContext with the given parent context.
 * @param parent the parent context
 */
public AbstractXmlApplicationContext(ApplicationContext parent) {
    super(parent);
}

/**
 * Set whether to use XML validation. Default is <code>true</code>.
 */
public void setValidating(boolean validating) {
    this.validating = validating;
}

/**
 * Loads the bean definitions via an XmlBeanDefinitionReader.
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
 * @see #initBeanDefinitionReader
 * @see #loadBeanDefinitions
 */
@Override
protected void loadBeanDefinitions(DefaultListableBeanFactory beanFactory) throws BeansException, IOException
{
    // Create a new XmlBeanDefinitionReader for the given BeanFactory.
    XmlBeanDefinitionReader beanDefinitionReader = new XmlBeanDefinitionReader(beanFactory);

    // Configure the bean definition reader with this context's
    // resource loading environment.
    beanDefinitionReader.setEnvironment(this.getEnvironment());
    beanDefinitionReader.setResourceLoader(this);
    beanDefinitionReader.setEntityResolver(new ResourceEntityResolver(this));

    // Allow a subclass to provide custom initialization of the reader,
    // then proceed with actually loading the bean definitions.
    initBeanDefinitionReader(beanDefinitionReader);
    loadBeanDefinitions(beanDefinitionReader);
}

```

```

/**
 * Initialize the bean definition reader used for loading the bean
 * definitions of this context. Default implementation is empty.
 * <p>Can be overridden in subclasses, e.g. for turning off XML validation
 * or using a different XmlBeanDefinitionParser implementation.
 * @param reader the bean definition reader used by this context
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader#setDocumentReaderClass
 */
protected void initBeanDefinitionReader(XmlBeanDefinitionReader reader) {
    reader.setValidating(this.validating);
}

/**
 * Load the bean definitions with the given XmlBeanDefinitionReader.
 * <p>The lifecycle of the bean factory is handled by the { @link #refreshBeanFactory}
 * method; hence this method is just supposed to load and/or register bean definitions.
 * @param reader the XmlBeanDefinitionReader to use
 * @throws BeansException in case of bean registration errors
 * @throws IOException if the required XML document isn't found
 * @see #refreshBeanFactory
 * @see #getConfigLocations
 * @see #getResources
 * @see #getResourcePatternResolver
 */
protected void loadBeanDefinitions(XmlBeanDefinitionReader reader) throws BeansException, IOException {
    Resource[] configResources = getConfigResources();
    if (configResources != null) {
        reader.loadBeanDefinitions(configResources);
    }
    String[] configLocations = getConfigLocations();
    if (configLocations != null) {
        reader.loadBeanDefinitions(configLocations);
    }
}

/**
 * Return an array of Resource objects, referring to the XML bean definition
 * files that this context should be built with.
 * <p>The default implementation returns <code>null</code>. Subclasses can override
 * this to provide pre-built Resource objects rather than location Strings.
 * @return an array of Resource objects, or <code>null</code> if none
 * @see #getConfigLocations()
 */
protected Resource[] getConfigResources() {
    return null;
}
}

```

```

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 * limitations under the License.
 */

```

```
package org.springframework.context.support;
```

```

import org.springframework.beans.BeansException;
import org.springframework.context.ApplicationContext;
import org.springframework.core.io.FileSystemResource;
import org.springframework.core.io.Resource;

```

```

/**
 * Standalone XML application context, taking the context definition files
 * from the file system or from URLs, interpreting plain paths as relative
 * file system locations (e.g. "mydir/myfile.txt"). Useful for test harnesses
 * as well as for standalone environments.
 *
 * <p><b>NOTE:</b> Plain paths will always be interpreted as relative
 * to the current VM working directory, even if they start with a slash.
 * (This is consistent with the semantics in a Servlet container.)
 * <b>Use an explicit "file:" prefix to enforce an absolute file path.</b>
 *
 * <p>The config location defaults can be overridden via { @link #getConfigLocations },
 * Config locations can either denote concrete files like "/myfiles/context.xml"
 * or Ant-style patterns like "/myfiles/*-context.xml" (see the
 * { @link org.springframework.util.AntPathMatcher } javadoc for pattern details).
 *
 * <p>Note: In case of multiple config locations, later bean definitions will
 * override ones defined in earlier loaded files. This can be leveraged to
 * deliberately override certain bean definitions via an extra XML file.
 *
 * <p><b>This is a simple, one-stop shop convenience ApplicationContext.
 * Consider using the { @link GenericApplicationContext } class in combination
 * with an { @link org.springframework.beans.factory.xml.XmlBeanDefinitionReader }
 * for more flexible context setup.</b>
 */

```

```

* @author Rod Johnson
* @author Juergen Hoeller
* @see #getResource
* @see #getResourceByPath
* @see GenericApplicationContext
*/
public class FileSystemXmlApplicationContext extends AbstractXmlApplicationContext {

    /**
     * Create a new FileSystemXmlApplicationContext for bean-style configuration.
     * @see #setConfigLocation
     * @see #setConfigLocations
     * @see #afterPropertiesSet()
     */
    public FileSystemXmlApplicationContext() {

    }

    /**
     * Create a new FileSystemXmlApplicationContext for bean-style configuration.
     * @param parent the parent context
     * @see #setConfigLocation
     * @see #setConfigLocations
     * @see #afterPropertiesSet()
     */
    public FileSystemXmlApplicationContext(ApplicationContext parent) {
        super(parent);
    }

    /**
     * Create a new FileSystemXmlApplicationContext, loading the definitions
     * from the given XML file and automatically refreshing the context.
     * @param configLocation file path
     * @throws BeansException if context creation failed
     */
    public FileSystemXmlApplicationContext(String configLocation) throws BeansException {
        this(new String[] { configLocation }, true, null);
    }

    /**
     * Create a new FileSystemXmlApplicationContext, loading the definitions
     * from the given XML files and automatically refreshing the context.
     * @param configLocations array of file paths
     * @throws BeansException if context creation failed
     */
    public FileSystemXmlApplicationContext(String... configLocations) throws BeansException {
        this(configLocations, true, null);
    }
}

```

```

/**
 * Create a new FileSystemXmlApplicationContext with the given parent,
 * loading the definitions from the given XML files and automatically
 * refreshing the context.
 * @param configLocations array of file paths
 * @param parent the parent context
 * @throws BeansException if context creation failed
 */
public FileSystemXmlApplicationContext(String[] configLocations, ApplicationContext parent) throws
BeansException {
    this(configLocations, true, parent);
}

/**
 * Create a new FileSystemXmlApplicationContext, loading the definitions
 * from the given XML files.
 * @param configLocations array of file paths
 * @param refresh whether to automatically refresh the context,
 * loading all bean definitions and creating all singletons.
 * Alternatively, call refresh manually after further configuring the context.
 * @throws BeansException if context creation failed
 * @see #refresh()
 */
public FileSystemXmlApplicationContext(String[] configLocations, boolean refresh) throws BeansException {
    this(configLocations, refresh, null);
}

/**
 * Create a new FileSystemXmlApplicationContext with the given parent,
 * loading the definitions from the given XML files.
 * @param configLocations array of file paths
 * @param refresh whether to automatically refresh the context,
 * loading all bean definitions and creating all singletons.
 * Alternatively, call refresh manually after further configuring the context.
 * @param parent the parent context
 * @throws BeansException if context creation failed
 * @see #refresh()
 */
public FileSystemXmlApplicationContext(String[] configLocations, boolean refresh, ApplicationContext parent)
throws BeansException {

    super(parent);
    setConfigLocations(configLocations);
    if (refresh) {
        refresh();
    }
}

```

```

/**
 * Resolve resource paths as file system paths.
 * <p>Note: Even if a given path starts with a slash, it will get
 * interpreted as relative to the current VM working directory.
 * This is consistent with the semantics in a Servlet container.
 * @param path path to the resource
 * @return Resource handle
 * @see org.springframework.web.context.support.XmlWebApplicationContext#getResourceByPath
 */
@Override
protected Resource getResourceByPath(String path) {
    if (path != null && path.startsWith("/")) {
        path = path.substring(1);
    }
    return new FileSystemResource(path);
}

}
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.springframework.context.support;

import java.io.IOException;

import org.springframework.beans.BeansException;
import org.springframework.beans.factory.BeanDefinitionStoreException;
import org.springframework.beans.factory.NoSuchBeanDefinitionException;
import org.springframework.beans.factory.annotation.QualifierAnnotationAutowireCandidateResolver;
import org.springframework.beans.factory.config.BeanDefinition;
import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;
import org.springframework.beans.factory.support.BeanDefinitionRegistry;
import org.springframework.beans.factory.support.DefaultListableBeanFactory;
import org.springframework.context.ApplicationContext;

```



```

import org.springframework.core.LocalVariableTableParameterNameDiscoverer;
import org.springframework.core.io.Resource;
import org.springframework.core.io.ResourceLoader;
import org.springframework.core.io.support.ResourcePatternResolver;
import org.springframework.util.Assert;

/**
 * Generic ApplicationContext implementation that holds a single internal
 * { @link org.springframework.beans.factory.support.DefaultListableBeanFactory }
 * instance and does not assume a specific bean definition format. Implements
 * the { @link org.springframework.beans.factory.support.BeanDefinitionRegistry }
 * interface in order to allow for applying any bean definition readers to it.
 *
 * <p>Typical usage is to register a variety of bean definitions via the
 * { @link org.springframework.beans.factory.support.BeanDefinitionRegistry }
 * interface and then call { @link #refresh()} to initialize those beans
 * with application context semantics (handling
 * { @link org.springframework.context.ApplicationContextAware }, auto-detecting
 * { @link org.springframework.beans.factory.config.BeanFactoryPostProcessor BeanFactoryPostProcessors },
 * etc).
 *
 * <p>In contrast to other ApplicationContext implementations that create a new
 * internal BeanFactory instance for each refresh, the internal BeanFactory of
 * this context is available right from the start, to be able to register bean
 * definitions on it. { @link #refresh()} may only be called once.
 *
 * <p>Usage example:
 *
 * <pre>
 * GenericApplicationContext ctx = new GenericApplicationContext();
 * XmlBeanDefinitionReader xmlReader = new XmlBeanDefinitionReader(ctx);
 * xmlReader.loadBeanDefinitions(new ClassPathResource("applicationContext.xml"));
 * PropertiesBeanDefinitionReader propReader = new PropertiesBeanDefinitionReader(ctx);
 * propReader.loadBeanDefinitions(new ClassPathResource("otherBeans.properties"));
 * ctx.refresh();
 *
 * MyBean myBean = (MyBean) ctx.getBean("myBean");
 * ...</pre>
 *
 * For the typical case of XML bean definitions, simply use
 * { @link ClassPathXmlApplicationContext } or { @link FileSystemXmlApplicationContext },
 * which are easier to set up - but less flexible, since you can just use standard
 * resource locations for XML bean definitions, rather than mixing arbitrary bean
 * definition formats. The equivalent in a web environment is
 * { @link org.springframework.web.context.support.XmlWebApplicationContext }.
 *
 * <p>For custom application context implementations that are supposed to read
 * special bean definition formats in a refreshable manner, consider deriving

```

```

* from the {@link AbstractRefreshableApplicationContext} base class.
*
* @author Juergen Hoeller
* @author Chris Beams
* @since 1.1.2
* @see #registerBeanDefinition
* @see #refresh()
* @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
* @see org.springframework.beans.factory.support.PropertiesBeanDefinitionReader
*/
public class GenericApplicationContext extends AbstractApplicationContext implements BeanDefinitionRegistry {

    private final DefaultListableBeanFactory beanFactory;

    private ResourceLoader resourceLoader;

    private boolean refreshed = false;

    /**
     * Create a new GenericApplicationContext.
     * @see #registerBeanDefinition
     * @see #refresh
     */
    public GenericApplicationContext() {
        this.beanFactory = new DefaultListableBeanFactory();
        this.beanFactory.setAutowireCandidateResolver(new QualifierAnnotationAutowireCandidateResolver());
    }

    /**
     * Create a new GenericApplicationContext with the given DefaultListableBeanFactory.
     * @param beanFactory the DefaultListableBeanFactory instance to use for this context
     * @see #registerBeanDefinition
     * @see #refresh
     */
    public GenericApplicationContext(DefaultListableBeanFactory beanFactory) {
        Assert.notNull(beanFactory, "BeanFactory must not be null");
        this.beanFactory = beanFactory;
    }

    /**
     * Create a new GenericApplicationContext with the given parent.
     * @param parent the parent application context
     * @see #registerBeanDefinition
     * @see #refresh
     */
    public GenericApplicationContext(ApplicationContext parent) {
        this();
    }

```

```

    setParent(parent);
}

/**
 * Create a new GenericApplicationContext with the given DefaultListableBeanFactory.
 * @param beanFactory the DefaultListableBeanFactory instance to use for this context
 * @param parent the parent application context
 * @see #registerBeanDefinition
 * @see #refresh
 */
public GenericApplicationContext(DefaultListableBeanFactory beanFactory, ApplicationContext parent) {
    this(beanFactory);
    setParent(parent);
}

/**
 * Set the parent of this application context, also setting
 * the parent of the internal BeanFactory accordingly.
 * @see org.springframework.beans.factory.config.ConfigurableBeanFactory#setParentBeanFactory
 */
@Override
public void setParent(ApplicationContext parent) {
    super.setParent(parent);
    this.beanFactory.setParentBeanFactory(getInternalParentBeanFactory());
}

@Override
public void setId(String id) {
    super.setId(id);
}

/**
 * Set whether it should be allowed to override bean definitions by registering
 * a different definition with the same name, automatically replacing the former.
 * If not, an exception will be thrown. Default is "true".
 * @see
    org.springframework.beans.factory.support.DefaultListableBeanFactory#setAllowBeanDefinitionOverriding
 */
public void setAllowBeanDefinitionOverriding(boolean allowBeanDefinitionOverriding) {
    this.beanFactory.setAllowBeanDefinitionOverriding(allowBeanDefinitionOverriding);
}

/**
 * Set whether to allow circular references between beans - and automatically
 * try to resolve them.
 * <p>Default is "true". Turn this off to throw an exception when encountering
 * a circular reference, disallowing them completely.

```

```

* @see org.springframework.beans.factory.support.DefaultListableBeanFactory#setAllowCircularReferences
*/
public void setAllowCircularReferences(boolean allowCircularReferences) {
    this.beanFactory.setAllowCircularReferences(allowCircularReferences);
}

/**
* Set a ResourceLoader to use for this context. If set, the context will
* delegate all <code>getResource</code> calls to the given ResourceLoader.
* If not set, default resource loading will apply.
* <p>The main reason to specify a custom ResourceLoader is to resolve
* resource paths (without URL prefix) in a specific fashion.
* The default behavior is to resolve such paths as class path locations.
* To resolve resource paths as file system locations, specify a
* FileSystemResourceLoader here.
* <p>You can also pass in a full ResourcePatternResolver, which will
* be autodetected by the context and used for <code>getResources</code>
* calls as well. Else, default resource pattern matching will apply.
* @see #getResource
* @see org.springframework.core.io.DefaultResourceLoader
* @see org.springframework.core.io.FileSystemResourceLoader
* @see org.springframework.core.io.support.ResourcePatternResolver
* @see #getResources
*/
public void setResourceLoader(ResourceLoader resourceLoader) {
    this.resourceLoader = resourceLoader;
}

/**
* This implementation delegates to this context's ResourceLoader if set,
* falling back to the default superclass behavior else.
* @see #setResourceLoader
*/
@Override
public Resource getResource(String location) {
    if (this.resourceLoader != null) {
        return this.resourceLoader.getResource(location);
    }
    return super.getResource(location);
}

/**
* This implementation delegates to this context's ResourceLoader if it
* implements the ResourcePatternResolver interface, falling back to the
* default superclass behavior else.
* @see #setResourceLoader
*/

```

```

@Override
public Resource[] getResources(String locationPattern) throws IOException {
    if (this.resourceLoader instanceof ResourcePatternResolver) {
        return ((ResourcePatternResolver) this.resourceLoader).getResources(locationPattern);
    }
    return super.getResources(locationPattern);
}

//-----
// Implementations of AbstractApplicationContext's template methods
//-----

/**
 * Do nothing: We hold a single internal BeanFactory and rely on callers
 * to register beans through our public methods (or the BeanFactory's).
 * @see #registerBeanDefinition
 */
@Override
protected final void refreshBeanFactory() throws IllegalStateException {
    if (this.refreshed) {
        throw new IllegalStateException(
            "GenericApplicationContext does not support multiple refresh attempts: just call 'refresh' once");
    }
    this.beanFactory.setSerializationId(getId());
    this.refreshed = true;
}

@Override
protected void cancelRefresh(BeansException ex) {
    this.beanFactory.setSerializationId(null);
    super.cancelRefresh(ex);
}

/**
 * Not much to do: We hold a single internal BeanFactory that will never
 * get released.
 */
@Override
protected final void closeBeanFactory() {
    this.beanFactory.setSerializationId(null);
}

/**
 * Return the single internal BeanFactory held by this context
 * (as ConfigurableListableBeanFactory).
 */
@Override

```

```

public final ConfigurableListableBeanFactory getBeanFactory() {
    return this.beanFactory;
}

/**
 * Return the underlying bean factory of this context,
 * available for registering bean definitions.
 * <p><b>NOTE:</b> You need to call { @link #refresh()} to initialize the
 * bean factory and its contained beans with application context semantics
 * (autodetecting BeanFactoryPostProcessors, etc).
 * @return the internal bean factory (as DefaultListableBeanFactory)
 */
public final DefaultListableBeanFactory getDefaultListableBeanFactory() {
    return this.beanFactory;
}

//-----
// Implementation of BeanDefinitionRegistry
//-----

public void registerBeanDefinition(String beanName, BeanDefinition beanDefinition)
    throws BeanDefinitionStoreException {

    this.beanFactory.registerBeanDefinition(beanName, beanDefinition);
}

public void removeBeanDefinition(String beanName) throws NoSuchBeanDefinitionException {
    this.beanFactory.removeBeanDefinition(beanName);
}

public BeanDefinition getBeanDefinition(String beanName) throws NoSuchBeanDefinitionException {
    return this.beanFactory.getBeanDefinition(beanName);
}

public boolean isBeanNameInUse(String beanName) {
    return this.beanFactory.isBeanNameInUse(beanName);
}

public void registerAlias(String beanName, String alias) {
    this.beanFactory.registerAlias(beanName, alias);
}

public void removeAlias(String alias) {
    this.beanFactory.removeAlias(alias);
}

public boolean isAlias(String beanName) {

```

```

    return this.beanFactory.isAlias(beanName);
}

}

/*
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 * limitations under the License.
 */

package org.springframework.context.support;

import org.springframework.beans.factory.xml.XmlBeanDefinitionReader;
import org.springframework.core.env.ConfigurableEnvironment;
import org.springframework.core.io.ClassPathResource;
import org.springframework.core.io.Resource;

/**
 * Convenient application context with built-in XML support.
 * This is a flexible alternative to { @link ClassPathXmlApplicationContext }
 * and { @link FileSystemXmlApplicationContext }, to be configured via setters,
 * with an eventual { @link #refresh() } call activating the context.
 *
 * <p>In case of multiple configuration files, bean definitions in later files
 * will override those defined in earlier files. This can be leveraged to
 * deliberately override certain bean definitions via an extra configuration file.
 *
 * @author Juergen Hoeller
 * @author Chris Beams
 * @since 3.0
 * @see #load
 * @see XmlBeanDefinitionReader
 * @see org.springframework.context.annotation.AnnotationConfigApplicationContext
 */
public class GenericXmlApplicationContext extends GenericApplicationContext {

    private final XmlBeanDefinitionReader reader = new XmlBeanDefinitionReader(this);

```

```

/**
 * Create a new GenericXmlApplicationContext that needs to be
 * { @linkplain #load loaded} and then manually { @link #refresh refreshed}.
 */
public GenericXmlApplicationContext() {
    reader.setEnvironment(this.getEnvironment());
}

/**
 * Create a new GenericXmlApplicationContext, loading bean definitions
 * from the given resources and automatically refreshing the context.
 * @param resources the resources to load from
 */
public GenericXmlApplicationContext(Resource... resources) {
    load(resources);
    refresh();
}

/**
 * Create a new GenericXmlApplicationContext, loading bean definitions
 * from the given resource locations and automatically refreshing the context.
 * @param resourceLocations the resources to load from
 */
public GenericXmlApplicationContext(String... resourceLocations) {
    load(resourceLocations);
    refresh();
}

/**
 * Create a new GenericXmlApplicationContext, loading bean definitions
 * from the given resource locations and automatically refreshing the context.
 * @param relativeClass class whose package will be used as a prefix when
 * loading each specified resource name
 * @param resourceNames relatively-qualified names of resources to load
 */
public GenericXmlApplicationContext(Class<?> relativeClass, String... resourceNames) {
    load(relativeClass, resourceNames);
    refresh();
}

/**
 * Set whether to use XML validation. Default is <code>true</code>.
 */
public void setValidating(boolean validating) {
    this.reader.setValidating(validating);
}

```



```

/**
 * {@inheritDoc}
 * <p>Delegates the given environment to underlying {@link XmlBeanDefinitionReader}.
 * Should be called before any call to {@link #load}.
 */
@Override
public void setEnvironment(ConfigurableEnvironment environment) {
    super.setEnvironment(environment);
    this.reader.setEnvironment(this.getEnvironment());
}

/**
 * Load bean definitions from the given XML resources.
 * @param resources one or more resources to load from
 */
public void load(Resource... resources) {
    this.reader.loadBeanDefinitions(resources);
}

/**
 * Load bean definitions from the given XML resources.
 * @param resourceLocations one or more resource locations to load from
 */
public void load(String... resourceLocations) {
    this.reader.loadBeanDefinitions(resourceLocations);
}

/**
 * Load bean definitions from the given XML resources.
 * @param relativeClass class whose package will be used as a prefix when
 * loading each specified resource name
 * @param resourceNames relatively-qualified names of resources to load
 */
public void load(Class<?> relativeClass, String... resourceNames) {
    Resource[] resources = new Resource[resourceNames.length];
    for (int i = 0; i < resourceNames.length; i++) {
        resources[i] = new ClassPathResource(resourceNames[i], relativeClass);
    }
    this.load(resources);
}

}

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```

```

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* limitations under the License.
*/

package org.springframework.context.support;

import org.springframework.beans.factory.BeanNameAware;

import org.springframework.beans.factory.InitializingBean;
import org.springframework.context.ApplicationContext;
import org.springframework.util.Assert;
import org.springframework.util.StringUtils;

/**
 * {@link AbstractRefreshableApplicationContext} subclass that adds common handling
 * of specified config locations. Serves as base class for XML-based application
 * context implementations such as {@link ClassPathXmlApplicationContext} and
 * {@link FileSystemXmlApplicationContext}, as well as
 * {@link org.springframework.web.context.support.XmlWebApplicationContext} and
 * {@link org.springframework.web.portlet.context.XmlPortletApplicationContext}.
 *
 * @author Juergen Hoeller
 * @since 2.5.2
 * @see #setConfigLocation
 * @see #setConfigLocations
 * @see #getDefaultConfigLocations
 */
public abstract class AbstractRefreshableConfigApplicationContext extends AbstractRefreshableApplicationContext
    implements BeanNameAware, InitializingBean {

    private String[] configLocations;

    private boolean setIdCalled = false;

    /**
     * Create a new AbstractRefreshableConfigApplicationContext with no parent.
     */
    public AbstractRefreshableConfigApplicationContext() {
    }

    /**

```

```

* Create a new AbstractRefreshableConfigApplicationContext with the given parent context.
* @param parent the parent context
*/
public AbstractRefreshableConfigApplicationContext(ApplicationContext parent) {
    super(parent);
}

/**
* Set the config locations for this application context in init-param style,
* i.e. with distinct locations separated by commas, semicolons or whitespace.
* <p>If not set, the implementation may use a default as appropriate.
*/
public void setConfigLocation(String location) {
    setConfigLocations(StringUtils.tokenizeToStringArray(location, CONFIG_LOCATION_DELIMITERS));
}

/**
* Set the config locations for this application context.
* <p>If not set, the implementation may use a default as appropriate.
*/
public void setConfigLocations(String[] locations) {
    if (locations != null) {
        Assert.noNullElements(locations, "Config locations must not be null");
        this.configLocations = new String[locations.length];
        for (int i = 0; i < locations.length; i++) {
            this.configLocations[i] = resolvePath(locations[i]).trim();
        }
    }
    else {
        this.configLocations = null;
    }
}

/**
* Return an array of resource locations, referring to the XML bean definition
* files that this context should be built with. Can also include location
* patterns, which will get resolved via a ResourcePatternResolver.
* <p>The default implementation returns <code>null</code>. Subclasses can override
* this to provide a set of resource locations to load bean definitions from.
* @return an array of resource locations, or <code>null</code> if none
* @see #getResources
* @see #getResourcePatternResolver
*/
protected String[] getConfigLocations() {
    return (this.configLocations != null ? this.configLocations : getDefaultConfigLocations());
}

```

```

/**
 * Return the default config locations to use, for the case where no
 * explicit config locations have been specified.
 * <p>The default implementation returns <code>null</code>,
 * requiring explicit config locations.
 * @return an array of default config locations, if any
 * @see #setConfigLocations
 */
protected String[] getDefaultConfigLocations() {
    return null;
}

/**
 * Resolve the given path, replacing placeholders with corresponding
 * system property values if necessary. Applied to config locations.
 * @param path the original file path
 * @return the resolved file path
 */
protected String resolvePath(String path) {
    return this.getEnvironment().resolveRequiredPlaceholders(path);
}

@Override
public void setId(String id) {
    super.setId(id);
    this.setIdCalled = true;
}

/**
 * Sets the id of this context to the bean name by default,
 * for cases where the context instance is itself defined as a bean.
 */
public void setBeanName(String name) {
    if (!this.setIdCalled) {
        super.setId(name);
        setDisplayName("ApplicationContext '" + name + "'");
    }
}

/**
 * Triggers { @link #refresh() } if not refreshed in the concrete context's
 * constructor already.
 */
public void afterPropertiesSet() {
    if (!isActive()) {
        refresh();
    }
}

```

```

}

}
/*
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 * limitations under the License.
 */

```

```
package org.springframework.context.support;
```

```

import java.io.IOException;
import java.lang.annotation.Annotation;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Date;
import java.util.HashSet;
import java.util.LinkedHashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;

```

```

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.beans.BeansException;
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.DisposableBean;
import org.springframework.beans.factory.NoSuchBeanDefinitionException;
import org.springframework.beans.factory.config.AutowireCapableBeanFactory;
import org.springframework.beans.factory.config.BeanFactoryPostProcessor;
import org.springframework.beans.factory.config.BeanPostProcessor;
import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;
import org.springframework.beans.factory.support.BeanDefinitionRegistry;
import org.springframework.beans.factory.support.BeanDefinitionRegistryPostProcessor;
import org.springframework.beans.factory.support.MergedBeanDefinitionPostProcessor;

```

```

import org.springframework.beans.factory.support.RootBeanDefinition;
import org.springframework.beans.support.ResourceEditorRegistrar;
import org.springframework.context.ApplicationContext;
import org.springframework.context.ApplicationContextAware;
import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationEventPublisher;
import org.springframework.context.ApplicationEventPublisherAware;
import org.springframework.context.ApplicationListener;
import org.springframework.context.ConfigurableApplicationContext;
import org.springframework.context.EnvironmentAware;
import org.springframework.context.HierarchicalMessageSource;
import org.springframework.context.LifecycleProcessor;
import org.springframework.context.MessageSource;
import org.springframework.context.MessageSourceAware;
import org.springframework.context.MessageSourceResolvable;
import org.springframework.context.NoSuchMessageException;
import org.springframework.context.ResourceLoaderAware;
import org.springframework.context.event.ApplicationEventMulticaster;
import org.springframework.context.event.ContextClosedEvent;
import org.springframework.context.event.ContextRefreshedEvent;
import org.springframework.context.event.ContextStartedEvent;
import org.springframework.context.event.ContextStoppedEvent;
import org.springframework.context.event.SimpleApplicationEventMulticaster;
import org.springframework.context.expression.StandardBeanExpressionResolver;
import org.springframework.context.weaving.LoadTimeWeaverAwareProcessor;
import org.springframework.core.OrderComparator;
import org.springframework.core.Ordered;
import org.springframework.core.PriorityOrdered;
import org.springframework.core.convert.ConversionService;
import org.springframework.core.env.ConfigurableEnvironment;
import org.springframework.core.env.StandardEnvironment;
import org.springframework.core.io.DefaultResourceLoader;
import org.springframework.core.io.Resource;
import org.springframework.core.io.ResourceLoader;
import org.springframework.core.io.support.PathMatchingResourcePatternResolver;
import org.springframework.core.io.support.ResourcePatternResolver;
import org.springframework.util.Assert;
import org.springframework.util.ObjectUtils;

/**
 * Abstract implementation of the { @link org.springframework.context.ApplicationContext }
 * interface. Doesn't mandate the type of storage used for configuration; simply
 * implements common context functionality. Uses the Template Method design pattern,
 * requiring concrete subclasses to implement abstract methods.
 *
 * <p>In contrast to a plain BeanFactory, an ApplicationContext is supposed
 * to detect special beans defined in its internal bean factory:
 * Therefore, this class automatically registers

```

```

* { @link org.springframework.beans.factory.config.BeanFactoryPostProcessor BeanFactoryPostProcessors },
* { @link org.springframework.beans.factory.config.BeanPostProcessor BeanPostProcessors }
* and { @link org.springframework.context.ApplicationListener ApplicationListeners }
* which are defined as beans in the context.
*
* <p>A { @link org.springframework.context.MessageSource } may also be supplied
* as a bean in the context, with the name "messageSource"; otherwise, message
* resolution is delegated to the parent context. Furthermore, a multicaster
* for application events can be supplied as "applicationEventMulticaster" bean
* of type { @link org.springframework.context.event.ApplicationEventMulticaster }
* in the context; otherwise, a default multicaster of type
* { @link org.springframework.context.event.SimpleApplicationEventMulticaster } will be used.
*
* <p>Implements resource loading through extending
* { @link org.springframework.core.io.DefaultResourceLoader }.
* Consequently treats non-URL resource paths as class path resources
* (supporting full class path resource names that include the package path,
* e.g. "mypackage/myresource.dat"), unless the { @link #getResourceByPath }
* method is overwritten in a subclass.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @author Mark Fisher
* @since January 21, 2001
* @see #refreshBeanFactory
* @see #getBeanFactory
* @see org.springframework.beans.factory.config.BeanFactoryPostProcessor
* @see org.springframework.beans.factory.config.BeanPostProcessor
* @see org.springframework.context.event.ApplicationEventMulticaster
* @see org.springframework.context.ApplicationListener
* @see org.springframework.context.MessageSource
*/
public abstract class AbstractApplicationContext extends DefaultResourceLoader
implements ConfigurableApplicationContext, DisposableBean {

/**
* Name of the MessageSource bean in the factory.
* If none is supplied, message resolution is delegated to the parent.
* @see MessageSource
*/
public static final String MESSAGE_SOURCE_BEAN_NAME = "messageSource";

/**
* Name of the LifecycleProcessor bean in the factory.
* If none is supplied, a DefaultLifecycleProcessor is used.
* @see org.springframework.context.LifecycleProcessor
* @see org.springframework.context.support.DefaultLifecycleProcessor
*/

```

```

public static final String LIFECYCLE_PROCESSOR_BEAN_NAME = "lifecycleProcessor";

/**
 * Name of the ApplicationEventMulticaster bean in the factory.
 * If none is supplied, a default SimpleApplicationEventMulticaster is used.
 * @see org.springframework.context.event.ApplicationEventMulticaster
 * @see org.springframework.context.event.SimpleApplicationEventMulticaster
 */
public static final String APPLICATION_EVENT_MULTICASTER_BEAN_NAME =
"applicationEventMulticaster";

static {
    // Eagerly load the ContextClosedEvent class to avoid weird classloader issues
    // on application shutdown in WebLogic 8.1. (Reported by Dustin Woods.)
    ContextClosedEvent.class.getName();
}

/** Logger used by this class. Available to subclasses. */
protected final Log logger = LogFactory.getLog(getClass());

/** Unique id for this context, if any */
private String id = ObjectUtils.identityToString(this);

/** Display name */
private String displayName = ObjectUtils.identityToString(this);

/** Parent context */
private ApplicationContext parent;

/** BeanFactoryPostProcessors to apply on refresh */
private final List<BeanFactoryPostProcessor> beanFactoryPostProcessors =
    new ArrayList<BeanFactoryPostProcessor>();

/** System time in milliseconds when this context started */
private long startupDate;

/** Flag that indicates whether this context is currently active */
private boolean active = false;

/** Flag that indicates whether this context has been closed already */
private boolean closed = false;

/** Synchronization monitor for the "active" flag */
private final Object activeMonitor = new Object();

/** Synchronization monitor for the "refresh" and "destroy" */

```



```

private final Object startupShutdownMonitor = new Object();

/** Reference to the JVM shutdown hook, if registered */
private Thread shutdownHook;

/** ResourcePatternResolver used by this context */
private ResourcePatternResolver resourcePatternResolver;

/** LifecycleProcessor for managing the lifecycle of beans within this context */
private LifecycleProcessor lifecycleProcessor;

/** MessageSource we delegate our implementation of this interface to */
private MessageSource messageSource;

/** Helper class used in event publishing */
private ApplicationEventMulticaster applicationEventMulticaster;

/** Statically specified listeners */
private Set<ApplicationListener<?>> applicationListeners = new LinkedHashSet<ApplicationListener<?>>();

/** Environment used by this context; initialized by {@link #createEnvironment()} */
private ConfigurableEnvironment environment;

/**
 * Create a new AbstractApplicationContext with no parent.
 */
public AbstractApplicationContext() {
    this(null);
}

/**
 * Create a new AbstractApplicationContext with the given parent context.
 * @param parent the parent context
 */
public AbstractApplicationContext(ApplicationContext parent) {
    this.parent = parent;
    this.resourcePatternResolver = getResourcePatternResolver();
    this.environment = this.createEnvironment();
}

//-----
// Implementation of ApplicationContext interface
//-----

/**
 * Set the unique id of this application context.

```

```

* <p>Default is the object id of the context instance, or the name
* of the context bean if the context is itself defined as a bean.
* @param id the unique id of the context
*/
public void setId(String id) {
    this.id = id;
}

/**
 * Return the unique id of this application context.
 * @return the unique id of the context, or <code>null</code> if none
 */
public String getId() {
    return this.id;
}

/**
 * Set a friendly name for this context.
 * Typically done during initialization of concrete context implementations.
 * <p>Default is the object id of the context instance.
 */
public void setDisplayName(String displayName) {
    Assert.hasLength(displayName, "Display name must not be empty");
    this.displayName = displayName;
}

/**
 * Return a friendly name for this context.
 * @return a display name for this context (never <code>null</code>)
 */
public String getDisplayName() {
    return this.displayName;
}

/**
 * Return the parent context, or <code>null</code> if there is no parent
 * (that is, this context is the root of the context hierarchy).
 */
public ApplicationContext getParent() {
    return this.parent;
}

public ConfigurableEnvironment getEnvironment() {
    return this.environment;
}

/**
 * {@inheritDoc}

```

```

* <p>Default value is determined by { @link #createEnvironment()}. Replacing the
* default with this method is one option but configuration through { @link
* #getEnvironment()} should also be considered. In either case, such modifications
* should be performed <em>before</em> { @link #refresh()}.
* @see org.springframework.context.support.AbstractApplicationContext#createEnvironment
*/
public void setEnvironment(ConfigurableEnvironment environment) {
    this.environment = environment;
}

/**
 * Return this context's internal bean factory as AutowireCapableBeanFactory,
 * if already available.
 * @see #getBeanFactory()
 */
public AutowireCapableBeanFactory getAutowireCapableBeanFactory() throws IllegalStateException {
    return getBeanFactory();
}

/**
 * Return the timestamp (ms) when this context was first loaded.
 */
public long getStartupDate() {
    return this.startupDate;
}

/**
 * Publish the given event to all listeners.
 * <p>Note: Listeners get initialized after the MessageSource, to be able
 * to access it within listener implementations. Thus, MessageSource
 * implementations cannot publish events.
 * @param event the event to publish (may be application-specific or a
 * standard framework event)
 */
public void publishEvent(ApplicationEvent event) {
    Assert.notNull(event, "Event must not be null");
    if (logger.isTraceEnabled()) {
        logger.trace("Publishing event in " + getDisplayName() + ": " + event);
    }
    getApplicationEventMulticaster().multicastEvent(event);
    if (this.parent != null) {
        this.parent.publishEvent(event);
    }
}

/**
 * Return the internal ApplicationEventMulticaster used by the context.
 * @return the internal ApplicationEventMulticaster (never <code>null</code>)

```

```

* @throws IllegalStateException if the context has not been initialized yet
*/
private ApplicationEventMulticaster getApplicationEventMulticaster() throws IllegalStateException {
    if (this.applicationEventMulticaster == null) {
        throw new IllegalStateException("ApplicationEventMulticaster not initialized - " +
            "call 'refresh' before multicasting events via the context: " + this);
    }
    return this.applicationEventMulticaster;
}

/**
 * Return the internal LifecycleProcessor used by the context.
 * @return the internal LifecycleProcessor (never null)
 * @throws IllegalStateException if the context has not been initialized yet
 */
private LifecycleProcessor getLifecycleProcessor() {
    if (this.lifecycleProcessor == null) {
        throw new IllegalStateException("LifecycleProcessor not initialized - " +
            "call 'refresh' before invoking lifecycle methods via the context: " + this);
    }
    return this.lifecycleProcessor;
}

/**
 * Return the ResourcePatternResolver to use for resolving location patterns
 * into Resource instances. Default is a
 * { @link org.springframework.core.io.support.PathMatchingResourcePatternResolver },
 * supporting Ant-style location patterns.
 * <p>Can be overridden in subclasses, for extended resolution strategies,
 * for example in a web environment.
 * <p><b>Do not call this when needing to resolve a location pattern.</b>
 * Call the context's getResources method instead, which
 * will delegate to the ResourcePatternResolver.
 * @return the ResourcePatternResolver for this context
 * @see #getResources
 * @see org.springframework.core.io.support.PathMatchingResourcePatternResolver
 */
protected ResourcePatternResolver getResourcePatternResolver() {
    return new PathMatchingResourcePatternResolver(this);
}

//-----
// Implementation of ConfigurableApplicationContext interface
//-----

/**
 * {@inheritDoc}

```

```

* <p>The parent { @linkplain #getEnvironment() environment} is
* delegated to this (child) context if the parent is a
* { @link ConfigurableApplicationContext} implementation.
*/
public void setParent(ApplicationContext parent) {
    this.parent = parent;
    if (parent instanceof ConfigurableApplicationContext) {
        this.setEnvironment(((ConfigurableApplicationContext)parent).getEnvironment());
    }
}

public void addBeanFactoryPostProcessor(BeanFactoryPostProcessor beanFactoryPostProcessor) {
    this.beanFactoryPostProcessors.add(beanFactoryPostProcessor);
}

/**
 * Return the list of BeanFactoryPostProcessors that will get applied
 * to the internal BeanFactory.
 */
public List<BeanFactoryPostProcessor> getBeanFactoryPostProcessors() {
    return this.beanFactoryPostProcessors;
}

public void addApplicationListener(ApplicationListener<?> listener) {
    if (this.applicationEventMulticaster != null) {
        this.applicationEventMulticaster.addApplicationListener(listener);
    }
    else {
        this.applicationListeners.add(listener);
    }
}

/**
 * Return the list of statically specified ApplicationListeners.
 */
public Collection<ApplicationListener<?>> getApplicationListeners() {
    return this.applicationListeners;
}

/**
 * Create and return a new { @link StandardEnvironment}.
 * <p>Subclasses may override this method in order to supply
 * a custom { @link ConfigurableEnvironment} implementation.
 */
protected ConfigurableEnvironment createEnvironment() {
    return new StandardEnvironment();
}

```

```

public void refresh() throws BeansException, IllegalStateException {
    synchronized (this.startupShutdownMonitor) {
        // Prepare this context for refreshing.
        prepareRefresh();

        // Tell the subclass to refresh the internal bean factory.
        ConfigurableListableBeanFactory beanFactory = obtainFreshBeanFactory();

        // Prepare the bean factory for use in this context.
        prepareBeanFactory(beanFactory);

        try {
            // Allows post-processing of the bean factory in context subclasses.
            postProcessBeanFactory(beanFactory);

            // Invoke factory processors registered as beans in the context.
            invokeBeanFactoryPostProcessors(beanFactory);

            // Register bean processors that intercept bean creation.
            registerBeanPostProcessors(beanFactory);

            // Initialize message source for this context.
            initMessageSource();

            // Initialize event multicaster for this context.
            initApplicationEventMulticaster();

            // Initialize other special beans in specific context subclasses.
            onRefresh();

            // Check for listener beans and register them.
            registerListeners();

            // Instantiate all remaining (non-lazy-init) singletons.
            finishBeanFactoryInitialization(beanFactory);

            // Last step: publish corresponding event.
            finishRefresh();
        }

        catch (BeansException ex) {
            // Destroy already created singletons to avoid dangling resources.
            destroyBeans();

            // Reset 'active' flag.
            cancelRefresh(ex);
        }
    }
}

```

```

    // Propagate exception to caller.
    throw ex;
}
}
}

/**
 * Prepare this context for refreshing, setting its startup date and
 * active flag as well as performing any initialization of property sources.
 */
protected void prepareRefresh() {
    this.startupDate = System.currentTimeMillis();

    synchronized (this.activeMonitor) {
        this.active = true;
    }

    if (logger.isInfoEnabled()) {
        logger.info("Refreshing " + this);
    }

    // Initialize any placeholder property sources in the context environment
    initPropertySources();

    // Validate that all properties marked as required are resolvable
    // see ConfigurablePropertyResolver#setRequiredProperties
    this.environment.validateRequiredProperties();
}

/**
 * <p>Replace any stub property sources with actual instances.
 * @see org.springframework.core.env.PropertySource.StubPropertySource
 * @see org.springframework.web.context.support.WebApplicationContextUtils#initServletPropertySources
 */
protected void initPropertySources() {
    // For subclasses: do nothing by default.
}

/**
 * Tell the subclass to refresh the internal bean factory.
 * @return the fresh BeanFactory instance
 * @see #refreshBeanFactory()
 * @see #getBeanFactory()
 */
protected ConfigurableListableBeanFactory obtainFreshBeanFactory() {
    refreshBeanFactory();
    ConfigurableListableBeanFactory beanFactory = getBeanFactory();
    if (logger.isDebugEnabled()) {

```

```

    logger.debug("Bean factory for " + getDisplayName() + ": " + beanFactory);
}
return beanFactory;
}

/**
 * Configure the factory's standard context characteristics,
 * such as the context's ClassLoader and post-processors.
 * @param beanFactory the BeanFactory to configure
 */
protected void prepareBeanFactory(ConfigurableListableBeanFactory beanFactory) {
    // Tell the internal bean factory to use the context's class loader etc.
    beanFactory.setBeanClassLoader(getClassLoader());
    beanFactory.setBeanExpressionResolver(new StandardBeanExpressionResolver());
    beanFactory.addPropertyEditorRegistrar(new ResourceEditorRegistrar(this, this.getEnvironment()));

    // Configure the bean factory with context callbacks.
    beanFactory.addBeanPostProcessor(new ApplicationContextAwareProcessor(this));
    beanFactory.ignoreDependencyInterface(ResourceLoaderAware.class);
    beanFactory.ignoreDependencyInterface(ApplicationEventPublisherAware.class);
    beanFactory.ignoreDependencyInterface(MessageSourceAware.class);
    beanFactory.ignoreDependencyInterface(ApplicationContextAware.class);
    beanFactory.ignoreDependencyInterface(EnvironmentAware.class);

    // BeanFactory interface not registered as resolvable type in a plain factory.
    // MessageSource registered (and found for autowiring) as a bean.
    beanFactory.registerResolvableDependency(BeanFactory.class, beanFactory);
    beanFactory.registerResolvableDependency(ResourceLoader.class, this);
    beanFactory.registerResolvableDependency(ApplicationEventPublisher.class, this);
    beanFactory.registerResolvableDependency(ApplicationContext.class, this);

    // Detect a LoadTimeWeaver and prepare for weaving, if found.
    if (beanFactory.containsBean(LOAD_TIME_WEAVER_BEAN_NAME)) {
        beanFactory.addBeanPostProcessor(new LoadTimeWeaverAwareProcessor(beanFactory));
        // Set a temporary ClassLoader for type matching.
        beanFactory.setTempClassLoader(new ContextTypeMatchClassLoader(beanFactory.getBeanClassLoader()));
    }

    // Register default environment beans.
    if (!beanFactory.containsBean(ENVIRONMENT_BEAN_NAME)) {
        beanFactory.registerSingleton(ENVIRONMENT_BEAN_NAME, getEnvironment());
    }

    if (!beanFactory.containsBean(SYSTEM_PROPERTIES_BEAN_NAME)) {
        beanFactory.registerSingleton(SYSTEM_PROPERTIES_BEAN_NAME, getEnvironment().getSystemProperties());
    }

    if (!beanFactory.containsBean(SYSTEM_ENVIRONMENT_BEAN_NAME)) {

```



```

    beanFactory.registerSingleton(SYSTEM_ENVIRONMENT_BEAN_NAME,
    getEnvironment().getSystemEnvironment());
    }
    }

/**
 * Modify the application context's internal bean factory after its standard
 * initialization. All bean definitions will have been loaded, but no beans
 * will have been instantiated yet. This allows for registering special
 * BeanPostProcessors etc in certain ApplicationContext implementations.
 * @param beanFactory the bean factory used by the application context
 */
protected void postProcessBeanFactory(ConfigurableListableBeanFactory beanFactory) {
}

/**
 * Instantiate and invoke all registered BeanFactoryPostProcessor beans,
 * respecting explicit order if given.
 * <p>Must be called before singleton instantiation.
 */
protected void invokeBeanFactoryPostProcessors(ConfigurableListableBeanFactory beanFactory) {
    // Invoke BeanDefinitionRegistryPostProcessors first, if any.
    Set<String> processedBeans = new HashSet<String>();
    if (beanFactory instanceof BeanDefinitionRegistry) {
        BeanDefinitionRegistry registry = (BeanDefinitionRegistry) beanFactory;
        List<BeanFactoryPostProcessor> regularPostProcessors = new LinkedList<BeanFactoryPostProcessor>();
        List<BeanDefinitionRegistryPostProcessor> registryPostProcessors =
            new LinkedList<BeanDefinitionRegistryPostProcessor>();
        for (BeanFactoryPostProcessor postProcessor : getBeanFactoryPostProcessors()) {
            if (postProcessor instanceof BeanDefinitionRegistryPostProcessor) {
                BeanDefinitionRegistryPostProcessor registryPostProcessor =
                    (BeanDefinitionRegistryPostProcessor) postProcessor;
                registryPostProcessor.postProcessBeanDefinitionRegistry(registry);
                registryPostProcessors.add(registryPostProcessor);
            }
            else {
                regularPostProcessors.add(postProcessor);
            }
        }
        Map<String, BeanDefinitionRegistryPostProcessor> beanMap =
            beanFactory.getBeansOfType(BeanDefinitionRegistryPostProcessor.class, true, false);
        List<BeanDefinitionRegistryPostProcessor> registryPostProcessorBeans =
            new ArrayList<BeanDefinitionRegistryPostProcessor>(beanMap.values());
        OrderComparator.sort(registryPostProcessorBeans);
        for (BeanDefinitionRegistryPostProcessor postProcessor : registryPostProcessorBeans) {
            postProcessor.postProcessBeanDefinitionRegistry(registry);
        }
        invokeBeanFactoryPostProcessors(registryPostProcessors, beanFactory);
    }
}

```

```

invokeBeanFactoryPostProcessors(registryPostProcessorBeans, beanFactory);
invokeBeanFactoryPostProcessors(regularPostProcessors, beanFactory);
processedBeans.addAll(beanMap.keySet());
}
else {
// Invoke factory processors registered with the context instance.
invokeBeanFactoryPostProcessors(getBeanFactoryPostProcessors(), beanFactory);
}

// Do not initialize FactoryBeans here: We need to leave all regular beans
// uninitialized to let the bean factory post-processors apply to them!
String[] postProcessorNames =
    beanFactory.getBeanNamesForType(BeaFactoryPostProcessor.class, true, false);

// Separate between BeanFactoryPostProcessors that implement PriorityOrdered,
// Ordered, and the rest.
List<BeanFactoryPostProcessor> priorityOrderedPostProcessors = new ArrayList<BeanFactoryPostProcessor>();
List<String> orderedPostProcessorNames = new ArrayList<String>();
List<String> nonOrderedPostProcessorNames = new ArrayList<String>();
for (String ppName : postProcessorNames) {
    if (processedBeans.contains(ppName)) {
        // skip - already processed in first phase above
    }
    else if (isTypeMatch(ppName, PriorityOrdered.class)) {
        priorityOrderedPostProcessors.add(beanFactory.getBean(ppName, BeanFactoryPostProcessor.class));
    }
    else if (isTypeMatch(ppName, Ordered.class)) {
        orderedPostProcessorNames.add(ppName);
    }
    else {
        nonOrderedPostProcessorNames.add(ppName);
    }
}

// First, invoke the BeanFactoryPostProcessors that implement PriorityOrdered.
OrderComparator.sort(priorityOrderedPostProcessors);
invokeBeanFactoryPostProcessors(priorityOrderedPostProcessors, beanFactory);

// Next, invoke the BeanFactoryPostProcessors that implement Ordered.
List<BeanFactoryPostProcessor> orderedPostProcessors = new ArrayList<BeanFactoryPostProcessor>();
for (String postProcessorName : orderedPostProcessorNames) {
    orderedPostProcessors.add(getBean(postProcessorName, BeanFactoryPostProcessor.class));
}
OrderComparator.sort(orderedPostProcessors);
invokeBeanFactoryPostProcessors(orderedPostProcessors, beanFactory);

// Finally, invoke all other BeanFactoryPostProcessors.
List<BeanFactoryPostProcessor> nonOrderedPostProcessors = new ArrayList<BeanFactoryPostProcessor>();

```

```

for (String postProcessorName : nonOrderedPostProcessorNames) {
    nonOrderedPostProcessors.add(getBean(postProcessorName, BeanFactoryPostProcessor.class));
}
invokeBeanFactoryPostProcessors(nonOrderedPostProcessors, beanFactory);
}

/**
 * Invoke the given BeanFactoryPostProcessor beans.
 */
private void invokeBeanFactoryPostProcessors(
    Collection<? extends BeanFactoryPostProcessor> postProcessors, ConfigurableListableBeanFactory beanFactory) {

    for (BeanFactoryPostProcessor postProcessor : postProcessors) {
        postProcessor.postProcessBeanFactory(beanFactory);
    }
}

/**
 * Instantiate and invoke all registered BeanPostProcessor beans,
 * respecting explicit order if given.
 * <p>Must be called before any instantiation of application beans.
 */
protected void registerBeanPostProcessors(ConfigurableListableBeanFactory beanFactory) {
    String[] postProcessorNames = beanFactory.getBeanNamesForType(BeanPostProcessor.class, true, false);

    // Register BeanPostProcessorChecker that logs an info message when
    // a bean is created during BeanPostProcessor instantiation, i.e. when
    // a bean is not eligible for getting processed by all BeanPostProcessors.
    int beanProcessorTargetCount = beanFactory.getBeanPostProcessorCount() + 1 + postProcessorNames.length;
    beanFactory.addBeanPostProcessor(new BeanPostProcessorChecker(beanFactory, beanProcessorTargetCount));

    // Separate between BeanPostProcessors that implement PriorityOrdered,
    // Ordered, and the rest.
    List<BeanPostProcessor> priorityOrderedPostProcessors = new ArrayList<BeanPostProcessor>();
    List<BeanPostProcessor> internalPostProcessors = new ArrayList<BeanPostProcessor>();
    List<String> orderedPostProcessorNames = new ArrayList<String>();
    List<String> nonOrderedPostProcessorNames = new ArrayList<String>();
    for (String ppName : postProcessorNames) {
        if (isTypeMatch(ppName, PriorityOrdered.class)) {
            BeanPostProcessor pp = beanFactory.getBean(ppName, BeanPostProcessor.class);
            priorityOrderedPostProcessors.add(pp);
            if (pp instanceof MergedBeanDefinitionPostProcessor) {
                internalPostProcessors.add(pp);
            }
        }
        else if (isTypeMatch(ppName, Ordered.class)) {
            orderedPostProcessorNames.add(ppName);
        }
    }
}

```

```

else {
    nonOrderedPostProcessorNames.add(ppName);
}
}

// First, register the BeanPostProcessors that implement PriorityOrdered.
OrderComparator.sort(priorityOrderedPostProcessors);
registerBeanPostProcessors(beanFactory, priorityOrderedPostProcessors);

// Next, register the BeanPostProcessors that implement Ordered.
List<BeanPostProcessor> orderedPostProcessors = new ArrayList<BeanPostProcessor>();
for (String ppName : orderedPostProcessorNames) {
    BeanPostProcessor pp = beanFactory.getBean(ppName, BeanPostProcessor.class);
    orderedPostProcessors.add(pp);
    if (pp instanceof MergedBeanDefinitionPostProcessor) {
        internalPostProcessors.add(pp);
    }
}
OrderComparator.sort(orderedPostProcessors);
registerBeanPostProcessors(beanFactory, orderedPostProcessors);

// Now, register all regular BeanPostProcessors.
List<BeanPostProcessor> nonOrderedPostProcessors = new ArrayList<BeanPostProcessor>();
for (String ppName : nonOrderedPostProcessorNames) {
    BeanPostProcessor pp = beanFactory.getBean(ppName, BeanPostProcessor.class);
    nonOrderedPostProcessors.add(pp);
    if (pp instanceof MergedBeanDefinitionPostProcessor) {
        internalPostProcessors.add(pp);
    }
}
registerBeanPostProcessors(beanFactory, nonOrderedPostProcessors);

// Finally, re-register all internal BeanPostProcessors.
OrderComparator.sort(internalPostProcessors);
registerBeanPostProcessors(beanFactory, internalPostProcessors);

beanFactory.addBeanPostProcessor(new ApplicationListenerDetector());
}

/**
 * Register the given BeanPostProcessor beans.
 */
private void registerBeanPostProcessors(
    ConfigurableListableBeanFactory beanFactory, List<BeanPostProcessor> postProcessors) {

    for (BeanPostProcessor postProcessor : postProcessors) {
        beanFactory.addBeanPostProcessor(postProcessor);
    }
}

```

```

}

/**
 * Initialize the MessageSource.
 * Use parent's if none defined in this context.
 */
protected void initMessageSource() {
    ConfigurableListableBeanFactory beanFactory = getBeanFactory();
    if (beanFactory.containsLocalBean(MESSAGE_SOURCE_BEAN_NAME)) {
        this.messageSource = beanFactory.getBean(MESSAGE_SOURCE_BEAN_NAME, MessageSource.class);
        // Make MessageSource aware of parent MessageSource.
        if (this.parent != null && this.messageSource instanceof HierarchicalMessageSource) {
            HierarchicalMessageSource hms = (HierarchicalMessageSource) this.messageSource;
            if (hms.getParentMessageSource() == null) {
                // Only set parent context as parent MessageSource if no parent MessageSource
                // registered already.
                hms.setParentMessageSource(getInternalParentMessageSource());
            }
        }
        if (logger.isDebugEnabled()) {
            logger.debug("Using MessageSource [" + this.messageSource + "]");
        }
    }
    else {
        // Use empty MessageSource to be able to accept getMessage calls.
        DelegatingMessageSource dms = new DelegatingMessageSource();
        dms.setParentMessageSource(getInternalParentMessageSource());
        this.messageSource = dms;
        beanFactory.registerSingleton(MESSAGE_SOURCE_BEAN_NAME, this.messageSource);
        if (logger.isDebugEnabled()) {
            logger.debug("Unable to locate MessageSource with name " + MESSAGE_SOURCE_BEAN_NAME +
                ": using default [" + this.messageSource + "]");
        }
    }
}

/**
 * Initialize the ApplicationEventMulticaster.
 * Uses SimpleApplicationEventMulticaster if none defined in the context.
 * @see org.springframework.context.event.SimpleApplicationEventMulticaster
 */
protected void initApplicationEventMulticaster() {
    ConfigurableListableBeanFactory beanFactory = getBeanFactory();
    if (beanFactory.containsLocalBean(APPLICATION_EVENT_MULTICASTER_BEAN_NAME)) {
        this.applicationEventMulticaster =
            beanFactory.getBean(APPLICATION_EVENT_MULTICASTER_BEAN_NAME,
                ApplicationEventMulticaster.class);
        if (logger.isDebugEnabled()) {

```

```

    logger.debug("Using ApplicationEventMulticaster [" + this.applicationEventMulticaster + "]");
}
}
else {
    this.applicationEventMulticaster = new SimpleApplicationEventMulticaster(beanFactory);
    beanFactory.registerSingleton(APPLICATION_EVENT_MULTICASTER_BEAN_NAME,
this.applicationEventMulticaster);
    if (logger.isDebugEnabled()) {
        logger.debug("Unable to locate ApplicationEventMulticaster with name '" +
APPLICATION_EVENT_MULTICASTER_BEAN_NAME +
        "': using default [" + this.applicationEventMulticaster + "]");
    }
}
}

/**
 * Initialize the LifecycleProcessor.
 * Uses DefaultLifecycleProcessor if none defined in the context.
 * @see org.springframework.context.support.DefaultLifecycleProcessor
 */
protected void initLifecycleProcessor() {
    ConfigurableListableBeanFactory beanFactory = getBeanFactory();
    if (beanFactory.containsLocalBean(LIFECYCLE_PROCESSOR_BEAN_NAME)) {
        this.lifecycleProcessor =
            beanFactory.getBean(LIFECYCLE_PROCESSOR_BEAN_NAME, LifecycleProcessor.class);
        if (logger.isDebugEnabled()) {
            logger.debug("Using LifecycleProcessor [" + this.lifecycleProcessor + "]");
        }
    }
    else {
        DefaultLifecycleProcessor defaultProcessor = new DefaultLifecycleProcessor();
        defaultProcessor.setBeanFactory(beanFactory);
        this.lifecycleProcessor = defaultProcessor;
        beanFactory.registerSingleton(LIFECYCLE_PROCESSOR_BEAN_NAME, this.lifecycleProcessor);
        if (logger.isDebugEnabled()) {
            logger.debug("Unable to locate LifecycleProcessor with name '" +
LIFECYCLE_PROCESSOR_BEAN_NAME +
            "': using default [" + this.lifecycleProcessor + "]");
        }
    }
}

/**
 * Template method which can be overridden to add context-specific refresh work.
 * Called on initialization of special beans, before instantiation of singletons.
 * <p>This implementation is empty.
 * @throws BeansException in case of errors
 * @see #refresh()

```

```

*/
protected void onRefresh() throws BeansException {
    // For subclasses: do nothing by default.
}

/**
 * Add beans that implement ApplicationListener as listeners.
 * Doesn't affect other listeners, which can be added without being beans.
 */
protected void registerListeners() {
    // Register statically specified listeners first.
    for (ApplicationListener<?> listener : getApplicationListeners()) {
        getApplicationEventMulticaster().addApplicationListener(listener);
    }
    // Do not initialize FactoryBeans here: We need to leave all regular beans
    // uninitialized to let post-processors apply to them!
    String[] listenerBeanNames = getBeanNamesForType(ApplicationListener.class, true, false);
    for (String lisName : listenerBeanNames) {
        getApplicationEventMulticaster().addApplicationListenerBean(lisName);
    }
}

/**
 * Subclasses can invoke this method to register a listener.
 * Any beans in the context that are listeners are automatically added.
 * <p>Note: This method only works within an active application context,
 * i.e. when an ApplicationEventMulticaster is already available. Generally
 * prefer the use of { @link #addApplicationListener } which is more flexible.
 * @param listener the listener to register
 * @deprecated as of Spring 3.0, in favor of { @link #addApplicationListener }
 */
@Deprecated
protected void addListener(ApplicationListener<?> listener) {
    getApplicationEventMulticaster().addApplicationListener(listener);
}

/**
 * Finish the initialization of this context's bean factory,
 * initializing all remaining singleton beans.
 */
protected void finishBeanFactoryInitialization(ConfigurableListableBeanFactory beanFactory) {
    // Initialize conversion service for this context.
    if (beanFactory.containsBean(CONVERSION_SERVICE_BEAN_NAME) &&
        beanFactory.isTypeMatch(CONVERSION_SERVICE_BEAN_NAME, ConversionService.class)) {
        beanFactory.setConversionService(
            beanFactory.getBean(CONVERSION_SERVICE_BEAN_NAME, ConversionService.class));
    }
}

```

```

// Stop using the temporary ClassLoader for type matching.
beanFactory.setTempClassLoader(null);

// Allow for caching all bean definition metadata, not expecting further changes.
beanFactory.freezeConfiguration();

// Instantiate all remaining (non-lazy-init) singletons.
beanFactory.preInstantiateSingletons();
}

/**
 * Finish the refresh of this context, invoking the LifecycleProcessor's
 * onRefresh() method and publishing the
 * {@link org.springframework.context.event.ContextRefreshedEvent}.
 */
protected void finishRefresh() {
// Initialize lifecycle processor for this context.
initLifecycleProcessor();

// Propagate refresh to lifecycle processor first.
getLifecycleProcessor().onRefresh();

// Publish the final event.
publishEvent(new ContextRefreshedEvent(this));
}

/**
 * Cancel this context's refresh attempt, resetting the <code>active</code> flag
 * after an exception got thrown.
 * @param ex the exception that led to the cancellation
 */
protected void cancelRefresh(BeansException ex) {
synchronized (this.activeMonitor) {
this.active = false;
}
}

/**
 * Register a shutdown hook with the JVM runtime, closing this context
 * on JVM shutdown unless it has already been closed at that time.
 * <p>Delegates to <code>doClose()</code> for the actual closing procedure.
 * @see java.lang.Runtime#addShutdownHook
 * @see #close()
 * @see #doClose()
 */
public void registerShutdownHook() {
if (this.shutdownHook == null) {

```



```

// No shutdown hook registered yet.
this.shutdownHook = new Thread() {
    @Override
    public void run() {
        doClose();
    }
};
Runtime.getRuntime().addShutdownHook(this.shutdownHook);
}
}

/**
 * DisposableBean callback for destruction of this instance.
 * Only called when the ApplicationContext itself is running
 * as a bean in another BeanFactory or ApplicationContext,
 * which is rather unusual.
 * <p>The <code>close</code> method is the native way to
 * shut down an ApplicationContext.
 * @see #close()
 * @see org.springframework.beans.factory.access.SingletonBeanFactoryLocator
 */
public void destroy() {
    close();
}

/**
 * Close this application context, destroying all beans in its bean factory.
 * <p>Delegates to <code>doClose</code> for the actual closing procedure.
 * Also removes a JVM shutdown hook, if registered, as it's not needed anymore.
 * @see #doClose()
 * @see #registerShutdownHook()
 */
public void close() {
    synchronized (this.startupShutdownMonitor) {
        doClose();
        // If we registered a JVM shutdown hook, we don't need it anymore now:
        // We've already explicitly closed the context.
        if (this.shutdownHook != null) {
            try {
                Runtime.getRuntime().removeShutdownHook(this.shutdownHook);
            }
            catch (IllegalStateException ex) {
                // ignore - VM is already shutting down
            }
        }
    }
}
}
}

```

```

/**
 * Actually performs context closing: publishes a ContextClosedEvent and
 * destroys the singletons in the bean factory of this application context.
 * <p>Called by both <code>close()</code> and a JVM shutdown hook, if any.
 * @see org.springframework.context.event.ContextClosedEvent
 * @see #destroyBeans()
 * @see #close()
 * @see #registerShutdownHook()
 */
protected void doClose() {
    boolean actuallyClose;
    synchronized (this.activeMonitor) {
        actuallyClose = this.active && !this.closed;
        this.closed = true;
    }

    if (actuallyClose) {
        if (logger.isInfoEnabled()) {
            logger.info("Closing " + this);
        }

        try {
            // Publish shutdown event.
            publishEvent(new ContextClosedEvent(this));
        }
        catch (Throwable ex) {
            logger.warn("Exception thrown from ApplicationListener handling ContextClosedEvent", ex);
        }

        // Stop all Lifecycle beans, to avoid delays during individual destruction.
        try {
            getLifecycleProcessor().onClose();
        }
        catch (Throwable ex) {
            logger.warn("Exception thrown from LifecycleProcessor on context close", ex);
        }

        // Destroy all cached singletons in the context's BeanFactory.
        destroyBeans();

        // Close the state of this context itself.
        closeBeanFactory();

        // Let subclasses do some final clean-up if they wish...
        onClose();

        synchronized (this.activeMonitor) {
            this.active = false;
        }
    }
}

```

```

    }
    }
}

/**
 * Template method for destroying all beans that this context manages.
 * The default implementation destroy all cached singletons in this context,
 * invoking DisposableBean.destroy() and/or the specified
 * "destroy-method".
 * <p>Can be overridden to add context-specific bean destruction steps
 * right before or right after standard singleton destruction,
 * while the context's BeanFactory is still active.
 * @see #getBeanFactory()
 * @see org.springframework.beans.factory.config.ConfigurableBeanFactory#destroySingletons()
 */
protected void destroyBeans() {
    getBeanFactory().destroySingletons();
}

/**
 * Template method which can be overridden to add context-specific shutdown work.
 * The default implementation is empty.
 * <p>Called at the end of { @link #doClose}'s shutdown procedure, after
 * this context's BeanFactory has been closed. If custom shutdown logic
 * needs to execute while the BeanFactory is still active, override
 * the { @link #destroyBeans()} method instead.
 */
protected void onClose() {
    // For subclasses: do nothing by default.
}

public boolean isActive() {
    synchronized (this.activeMonitor) {
        return this.active;
    }
}

//-----
// Implementation of BeanFactory interface
//-----

public Object getBean(String name) throws BeansException {
    return getBeanFactory().getBean(name);
}

public <T> T getBean(String name, Class<T> requiredType) throws BeansException {
    return getBeanFactory().getBean(name, requiredType);
}

```

```

}

public <T> T getBean(Class<T> requiredType) throws BeansException {
    return getBeanFactory().getBean(requiredType);
}

public Object getBean(String name, Object... args) throws BeansException {
    return getBeanFactory().getBean(name, args);
}

public boolean containsBean(String name) {
    return getBeanFactory().containsBean(name);
}

public boolean isSingleton(String name) throws NoSuchBeanDefinitionException {
    return getBeanFactory().isSingleton(name);
}

public boolean isPrototype(String name) throws NoSuchBeanDefinitionException {
    return getBeanFactory().isPrototype(name);
}

public boolean isTypeMatch(String name, Class<?> targetType) throws NoSuchBeanDefinitionException {
    return getBeanFactory().isTypeMatch(name, targetType);
}

public Class<?> getType(String name) throws NoSuchBeanDefinitionException {
    return getBeanFactory().getType(name);
}

public String[] getAliases(String name) {
    return getBeanFactory().getAliases(name);
}

//-----
// Implementation of ListableBeanFactory interface
//-----

public boolean containsBeanDefinition(String beanName) {
    return getBeanFactory().containsBeanDefinition(beanName);
}

public int getBeanDefinitionCount() {
    return getBeanFactory().getBeanDefinitionCount();
}

public String[] getBeanDefinitionNames() {

```

```

return getBeanFactory().getBeanDefinitionNames();
}

public String[] getBeanNamesForType(Class<?> type) {
return getBeanFactory().getBeanNamesForType(type);
}

public String[] getBeanNamesForType(Class<?> type, boolean includeNonSingletons, boolean allowEagerInit) {
return getBeanFactory().getBeanNamesForType(type, includeNonSingletons, allowEagerInit);
}

public <T> Map<String, T> getBeansOfType(Class<T> type) throws BeansException {
return getBeanFactory().getBeansOfType(type);
}

public <T> Map<String, T> getBeansOfType(Class<T> type, boolean includeNonSingletons, boolean
allowEagerInit)
throws BeansException {

return getBeanFactory().getBeansOfType(type, includeNonSingletons, allowEagerInit);
}

public Map<String, Object> getBeansWithAnnotation(Class<? extends Annotation> annotationType)
throws BeansException {

return getBeanFactory().getBeansWithAnnotation(annotationType);
}

public <A extends Annotation> A findAnnotationOnBean(String beanName, Class<A> annotationType) {
return getBeanFactory().findAnnotationOnBean(beanName, annotationType);
}

//-----
// Implementation of HierarchicalBeanFactory interface
//-----

public BeanFactory getParentBeanFactory() {
return getParent();
}

public boolean containsLocalBean(String name) {
return getBeanFactory().containsLocalBean(name);
}

/**
* Return the internal bean factory of the parent context if it implements
* ConfigurableApplicationContext; else, return the parent context itself.

```

```

* @see org.springframework.context.ConfigurableApplicationContext#getBeanFactory
*/
protected BeanFactory getInternalParentBeanFactory() {
    return (getParent() instanceof ConfigurableApplicationContext) ?
        ((ConfigurableApplicationContext) getParent()).getBeanFactory() : getParent();
}

//-----
// Implementation of MessageSource interface
//-----

public String getMessage(String code, Object args[], String defaultMessage, Locale locale) {
    return getMessageSource().getMessage(code, args, defaultMessage, locale);
}

public String getMessage(String code, Object args[], Locale locale) throws NoSuchMessageException {
    return getMessageSource().getMessage(code, args, locale);
}

public String getMessage(MessageSourceResolvable resolvable, Locale locale) throws NoSuchMessageException {
    return getMessageSource().getMessage(resolvable, locale);
}

/**
 * Return the internal MessageSource used by the context.
 * @return the internal MessageSource (never <code>null</code>)
 * @throws IllegalStateException if the context has not been initialized yet
 */
private MessageSource getMessageSource() throws IllegalStateException {
    if (this.messageSource == null) {
        throw new IllegalStateException("MessageSource not initialized - " +
            "call 'refresh' before accessing messages via the context: " + this);
    }
    return this.messageSource;
}

/**
 * Return the internal message source of the parent context if it is an
 * AbstractApplicationContext too; else, return the parent context itself.
 */
protected MessageSource getInternalParentMessageSource() {
    return (getParent() instanceof AbstractApplicationContext) ?
        ((AbstractApplicationContext) getParent()).messageSource : getParent();
}

//-----

```

```

// Implementation of ResourcePatternResolver interface
//-----

public Resource[] getResources(String locationPattern) throws IOException {
    return this.resourcePatternResolver.getResources(locationPattern);
}

//-----
// Implementation of Lifecycle interface
//-----

public void start() {
    getLifecycleProcessor().start();
    publishEvent(new ContextStartedEvent(this));
}

public void stop() {
    getLifecycleProcessor().stop();
    publishEvent(new ContextStoppedEvent(this));
}

public boolean isRunning() {
    return getLifecycleProcessor().isRunning();
}

//-----
// Abstract methods that must be implemented by subclasses
//-----

/**
 * Subclasses must implement this method to perform the actual configuration load.
 * The method is invoked by { @link #refresh()} before any other initialization work.
 * <p>A subclass will either create a new bean factory and hold a reference to it,
 * or return a single BeanFactory instance that it holds. In the latter case, it will
 * usually throw an IllegalStateException if refreshing the context more than once.
 * @throws BeansException if initialization of the bean factory failed
 * @throws IllegalStateException if already initialized and multiple refresh
 * attempts are not supported
 */
protected abstract void refreshBeanFactory() throws BeansException, IllegalStateException;

/**
 * Subclasses must implement this method to release their internal bean factory.
 * This method gets invoked by { @link #close()} after all other shutdown work.
 * <p>Should never throw an exception but rather log shutdown failures.
 */

```

```

protected abstract void closeBeanFactory();

/**
 * Subclasses must return their internal bean factory here. They should implement the
 * lookup efficiently, so that it can be called repeatedly without a performance penalty.
 * <p>Note: Subclasses should check whether the context is still active before
 * returning the internal bean factory. The internal factory should generally be
 * considered unavailable once the context has been closed.
 * @return this application context's internal bean factory (never <code>null</code>)
 * @throws IllegalStateException if the context does not hold an internal bean factory yet
 * (usually if { @link #refresh()} has never been called) or if the context has been
 * closed already
 * @see #refreshBeanFactory()
 * @see #closeBeanFactory()
 */
public abstract ConfigurableListableBeanFactory getBeanFactory() throws IllegalStateException;

/**
 * Return information about this context.
 */
@Override
public String toString() {
    StringBuilder sb = new StringBuilder(getDisplayName());
    sb.append(": startup date [").append(new Date(getStartupDate()));
    sb.append("]; ");
    ApplicationContext parent = getParent();
    if (parent == null) {
        sb.append("root of context hierarchy");
    }
    else {
        sb.append("parent: ").append(parent.getDisplayName());
    }
    return sb.toString();
}

/**
 * BeanPostProcessor that logs an info message when a bean is created during
 * BeanPostProcessor instantiation, i.e. when a bean is not eligible for
 * getting processed by all BeanPostProcessors.
 */
private class BeanPostProcessorChecker implements BeanPostProcessor {

    private final ConfigurableListableBeanFactory beanFactory;

    private final int beanPostProcessorTargetCount;

```



```

public BeanPostProcessorChecker(ConfigurableListableBeanFactory beanFactory, int
beanPostProcessorTargetCount) {
    this.beanFactory = beanFactory;
    this.beanPostProcessorTargetCount = beanPostProcessorTargetCount;
}

public Object postProcessBeforeInitialization(Object bean, String beanName) {
    return bean;
}

public Object postProcessAfterInitialization(Object bean, String beanName) {
    if (bean != null && !(bean instanceof BeanPostProcessor) &&
        this.beanFactory.getBeanPostProcessorCount() < this.beanPostProcessorTargetCount) {
        if (logger.isInfoEnabled()) {
            logger.info("Bean " + beanName + " of type [" + bean.getClass() +
                "] is not eligible for getting processed by all BeanPostProcessors " +
                "(for example: not eligible for auto-proxying)");
        }
    }
    return bean;
}

/**
 * BeanPostProcessor that detects beans which implement the ApplicationListener interface.
 * This catches beans that can't reliably be detected by getBeanNamesForType.
 */
private class ApplicationListenerDetector implements MergedBeanDefinitionPostProcessor {

    private final Map<String, Boolean> singletonNames = new ConcurrentHashMap<String, Boolean>();

    public void postProcessMergedBeanDefinition(RootBeanDefinition beanDefinition, Class<?> beanType, String
beanName) {
        if (beanDefinition.isSingleton()) {
            this.singletonNames.put(beanName, Boolean.TRUE);
        }
    }

    public Object postProcessBeforeInitialization(Object bean, String beanName) {
        return bean;
    }

    public Object postProcessAfterInitialization(Object bean, String beanName) {
        if (bean instanceof ApplicationListener) {
            // potentially not detected as a listener by getBeanNamesForType retrieval
            Boolean flag = this.singletonNames.get(beanName);
            if (Boolean.TRUE.equals(flag)) {

```

```

// singleton bean (top-level or inner): register on the fly
addApplicationListener((ApplicationListener<?>) bean);
}
else if (flag == null) {
if (logger.isWarnEnabled() && !containsBean(beanName)) {
// inner bean with other scope - can't reliably process events
logger.warn("Inner bean " + beanName + " implements ApplicationListener interface " +
"but is not reachable for event multicasting by its containing ApplicationContext " +
"because it does not have singleton scope. Only top-level listener beans are allowed " +
"to be of non-singleton scope.");
}
this.singletonNames.put(beanName, Boolean.FALSE);
}
}
return bean;
}
}

}
/*
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* limitations under the License.
*/

package org.springframework.context.support;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import org.springframework.beans.BeansException;
import org.springframework.context.ApplicationContext;
import org.springframework.context.ApplicationContextAware;
import org.springframework.context.ApplicationContextException;

/**
* Convenient superclass for application objects that want to be aware of
* the application context, e.g. for custom lookup of collaborating beans

```

```

* or for context-specific resource access. It saves the application
* context reference and provides an initialization callback method.
* Furthermore, it offers numerous convenience methods for message lookup.
*
* <p>There is no requirement to subclass this class: It just makes things
* a little easier if you need access to the context, e.g. for access to
* file resources or to the message source. Note that many application
* objects do not need to be aware of the application context at all,
* as they can receive collaborating beans via bean references.
*
* <p>Many framework classes are derived from this class, particularly
* within the web support.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.web.context.support.WebApplicationObjectSupport
*/
public abstract class ApplicationObjectSupport implements ApplicationContextAware {

    /** Logger that is available to subclasses */
    protected final Log logger = LogFactory.getLog(getClass());

    /** ApplicationContext this object runs in */
    private ApplicationContext applicationContext;

    /** MessageSourceAccessor for easy message access */
    private MessageSourceAccessor messageSourceAccessor;

    public final void setApplicationContext(ApplicationContext context) throws BeansException {
        if (context == null && !isContextRequired()) {
            // Reset internal context state.
            this.applicationContext = null;
            this.messageSourceAccessor = null;
        }
        else if (this.applicationContext == null) {
            // Initialize with passed-in context.
            if (!requiredContextClass().isInstance(context)) {
                throw new ApplicationContextException(
                    "Invalid application context: needs to be of type [" + requiredContextClass().getName() + "]");
            }
            this.applicationContext = context;
            this.messageSourceAccessor = new MessageSourceAccessor(context);
            initApplicationContext(context);
        }
        else {
            // Ignore reinitialization if same context passed in.
            if (this.applicationContext != context) {

```

```

    throw new ApplicationContextException(
        "Cannot reinitialize with different application context: current one is [" +
        this.applicationContext + "], passed-in one is [" + context + "]);
    }
}

/**
 * Determine whether this application object needs to run in an ApplicationContext.
 * <p>Default is "false". Can be overridden to enforce running in a context
 * (i.e. to throw IllegalStateException on accessors if outside a context).
 * @see #getApplicationContext
 * @see #getMessageSourceAccessor
 */
protected boolean isContextRequired() {
    return false;
}

/**
 * Determine the context class that any context passed to
 * <code>setApplicationContext</code> must be an instance of.
 * Can be overridden in subclasses.
 * @see #setApplicationContext
 */
protected Class requiredContextClass() {
    return ApplicationContext.class;
}

/**
 * Subclasses can override this for custom initialization behavior.
 * Gets called by <code>setApplicationContext</code> after setting the context instance.
 * <p>Note: Does </i>not</i> get called on reinitialization of the context
 * but rather just on first initialization of this object's context reference.
 * <p>The default implementation calls the overloaded { @link #initApplicationContext()}
 * method without ApplicationContext reference.
 * @param context the containing ApplicationContext
 * @throws ApplicationContextException in case of initialization errors
 * @throws BeansException if thrown by ApplicationContext methods
 * @see #setApplicationContext
 */
protected void initApplicationContext(ApplicationContext context) throws BeansException {
    initApplicationContext();
}

/**
 * Subclasses can override this for custom initialization behavior.
 * <p>The default implementation is empty. Called by
 * { @link #initApplicationContext(org.springframework.context.ApplicationContext)}.

```

```

* @throws ApplicationContextException in case of initialization errors
* @throws BeansException if thrown by ApplicationContext methods
* @see #setApplicationContext
*/
protected void initApplicationContext() throws BeansException {
}

/**
* Return the ApplicationContext that this object is associated with.
* @throws IllegalStateException if not running in an ApplicationContext
*/
public final ApplicationContext getApplicationContext() throws IllegalStateException {
    if (this.applicationContext == null && isContextRequired()) {
        throw new IllegalStateException(
            "ApplicationObjectSupport instance [" + this + "] does not run in an ApplicationContext");
    }
    return this.applicationContext;
}

/**
* Return a MessageSourceAccessor for the application context
* used by this object, for easy message access.
* @throws IllegalStateException if not running in an ApplicationContext
*/
protected final MessageSourceAccessor getMessageSourceAccessor() throws IllegalStateException {
    if (this.messageSourceAccessor == null && isContextRequired()) {
        throw new IllegalStateException(
            "ApplicationObjectSupport instance [" + this + "] does not run in an ApplicationContext");
    }
    return this.messageSourceAccessor;
}
}

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* limitations under the License.

```

```

*/

package org.springframework.context.support;

import java.util.HashMap;
import java.util.Map;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import org.springframework.beans.factory.ObjectFactory;
import org.springframework.beans.factory.config.Scope;
import org.springframework.core.NamedThreadLocal;

/**
 * Thread-backed { @link Scope } implementation.
 *
 * <p><strong>Note</strong> that the <code>SimpleThreadScope</code> <em>does not clean up any objects</em>
 * associated
 * with it. As such, it's typically preferable to use the { @link
 * org.springframework.web.context.request.RequestScope }
 * in Web environments.
 *
 * <p>For a implementation of a thread-based <code>Scope</code> with support for destruction callbacks, refer to
 * <a
 * href="http://www.springbyexample.org/twiki/bin/view/Example/CustomThreadScopeModule">this module</a>.
 *
 * <p>Thanks to Eugene Kuleshov for submitting the original prototype for a thread scope!
 *
 * @author Arjen Poutsma
 * @author Juergen Hoeller
 * @since 3.0
 * @see org.springframework.web.context.request.RequestScope
 */
public class SimpleThreadScope implements Scope {

    private static final Log logger = LogFactory.getLog(SimpleThreadScope.class);

    private final ThreadLocal<Map<String, Object>> threadScope =
        new NamedThreadLocal<Map<String, Object>>("SimpleThreadScope") {
            @Override
            protected Map<String, Object> initialValue() {
                return new HashMap<String, Object>();
            }
        };

    public Object get(String name, ObjectFactory objectFactory) {
        Map<String, Object> scope = threadScope.get();

```

```

Object object = scope.get(name);
if (object == null) {
    object = objectFactory.getObject();
    scope.put(name, object);
}
return object;
}

public Object remove(String name) {
    Map<String, Object> scope = threadScope.get();
    return scope.remove(name);
}

public void registerDestructionCallback(String name, Runnable callback) {
    logger.warn("SimpleThreadScope does not support destruction callbacks. " +
        "Consider using a RequestScope in a Web environment.");
}

public Object resolveContextualObject(String key) {
    return null;
}

public String getConversationId() {
    return Thread.currentThread().getName();
}

}
/*
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 * limitations under the License.
 */

package org.springframework.context.support;

import java.security.AccessControlContext;
import java.security.AccessController;
import java.security.PrivilegedAction;

```

```

import org.springframework.beans.BeansException;
import org.springframework.beans.factory.Aware;
import org.springframework.beans.factory.config.BeanPostProcessor;
import org.springframework.beans.factory.config.ConfigurableBeanFactory;
import org.springframework.context.ApplicationContextAware;
import org.springframework.context.ApplicationEventPublisherAware;
import org.springframework.context.ConfigurableApplicationContext;
import org.springframework.context.EmbeddedValueResolverAware;
import org.springframework.context.EnvironmentAware;
import org.springframework.context.MessageSourceAware;
import org.springframework.context.ResourceLoaderAware;
import org.springframework.util.StringValueResolver;

/**
 * {@link org.springframework.beans.factory.config.BeanPostProcessor}
 * implementation that passes the ApplicationContext to beans that
 * implement the {@link EnvironmentAware}, {@link EmbeddedValueResolverAware},
 * {@link ResourceLoaderAware}, {@link ApplicationEventPublisherAware},
 * {@link MessageSourceAware} and/or {@link ApplicationContextAware} interfaces.
 *
 * <p>Implemented interfaces are satisfied in order of their mention above.
 *
 * <p>Application contexts will automatically register this with their
 * underlying bean factory. Applications do not use this directly.
 *
 * @author Juergen Hoeller
 * @author Costin Leau
 * @author Chris Beams
 * @since 10.10.2003
 * @see org.springframework.context.EnvironmentAware
 * @see org.springframework.context.EmbeddedValueResolverAware
 * @see org.springframework.context.ResourceLoaderAware
 * @see org.springframework.context.ApplicationEventPublisherAware
 * @see org.springframework.context.MessageSourceAware
 * @see org.springframework.context.ApplicationContextAware
 * @see org.springframework.context.support.AbstractApplicationContext#refresh()
 */
class ApplicationContextAwareProcessor implements BeanPostProcessor {

    private final ConfigurableApplicationContext applicationContext;

    /**
     * Create a new ApplicationContextAwareProcessor for the given context.
     */
    public ApplicationContextAwareProcessor(ConfigurableApplicationContext applicationContext) {
        this.applicationContext = applicationContext;
    }

```



```

}

public Object postProcessBeforeInitialization(final Object bean, String beanName) throws BeansException {
    AccessControlContext acc = null;

    if (System.getSecurityManager() != null &&
        (bean instanceof EnvironmentAware || bean instanceof EmbeddedValueResolverAware ||
         bean instanceof ResourceLoaderAware || bean instanceof ApplicationEventPublisherAware ||
         bean instanceof MessageSourceAware || bean instanceof ApplicationContextAware)) {
        acc = this.applicationContext.getBeanFactory().getAccessControlContext();
    }

    if (acc != null) {
        AccessController.doPrivileged(new PrivilegedAction<Object>() {
            public Object run() {
                invokeAwareInterfaces(bean);
                return null;
            }
        }, acc);
    }
    else {
        invokeAwareInterfaces(bean);
    }

    return bean;
}

private void invokeAwareInterfaces(Object bean) {
    if (bean instanceof Aware) {
        if (bean instanceof EnvironmentAware) {
            ((EnvironmentAware) bean).setEnvironment(this.applicationContext.getEnvironment());
        }
        if (bean instanceof EmbeddedValueResolverAware) {
            ((EmbeddedValueResolverAware) bean).setEmbeddedValueResolver(
                new EmbeddedValueResolver(this.applicationContext.getBeanFactory()));
        }
        if (bean instanceof ResourceLoaderAware) {
            ((ResourceLoaderAware) bean).setResourceLoader(this.applicationContext);
        }
        if (bean instanceof ApplicationEventPublisherAware) {
            ((ApplicationEventPublisherAware) bean).setApplicationEventPublisher(this.applicationContext);
        }
        if (bean instanceof MessageSourceAware) {
            ((MessageSourceAware) bean).setMessageSource(this.applicationContext);
        }
        if (bean instanceof ApplicationContextAware) {
            ((ApplicationContextAware) bean).setApplicationContext(this.applicationContext);
        }
    }
}

```

```

    }
    }
}

public Object postProcessAfterInitialization(Object bean, String beanName) {
    return bean;
}

private static class EmbeddedValueResolver implements StringValueResolver {

    private final ConfigurableBeanFactory beanFactory;

    public EmbeddedValueResolver(ConfigurableBeanFactory beanFactory) {
        this.beanFactory = beanFactory;
    }

    public String resolveStringValue(String strVal) {
        return this.beanFactory.resolveEmbeddedValue(strVal);
    }
}

}
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 * limitations under the License.
 */

package org.springframework.context.support;

import java.util.Locale;

import org.springframework.beans.BeansException;
import org.springframework.beans.MutablePropertyValues;
import org.springframework.beans.factory.support.GenericBeanDefinition;
import org.springframework.context.ApplicationContext;

```

```

/**
 * {@link org.springframework.context.ApplicationContext} implementation
 * which supports programmatic registration of beans and messages,
 * rather than reading bean definitions from external configuration sources.
 * Mainly useful for testing.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see #registerSingleton
 * @see #registerPrototype
 * @see #registerBeanDefinition
 * @see #refresh
 */
public class StaticApplicationContext extends GenericApplicationContext {

    private final StaticMessageSource staticMessageSource;

    /**
     * Create a new StaticApplicationContext.
     * @see #registerSingleton
     * @see #registerPrototype
     * @see #registerBeanDefinition
     * @see #refresh
     */
    public StaticApplicationContext() throws BeansException {
        this(null);
    }

    /**
     * Create a new StaticApplicationContext with the given parent.
     * @see #registerSingleton
     * @see #registerPrototype
     * @see #registerBeanDefinition
     * @see #refresh
     */
    public StaticApplicationContext(ApplicationContext parent) throws BeansException {
        super(parent);

        // Initialize and register a StaticMessageSource.
        this.staticMessageSource = new StaticMessageSource();
        getBeanFactory().registerSingleton(MESSAGE_SOURCE_BEAN_NAME, this.staticMessageSource);
    }

    /**
     * Return the internal StaticMessageSource used by this context.
     * Can be used to register messages on it.

```

```

* @see #addMessage
*/
public final StaticMessageSource getStaticMessageSource() {
    return this.staticMessageSource;
}

/**
 * Register a singleton bean with the underlying bean factory.
 * <p>For more advanced needs, register with the underlying BeanFactory directly.
 * @see #getDefaultListableBeanFactory
 */
public void registerSingleton(String name, Class clazz) throws BeansException {
    GenericBeanDefinition bd = new GenericBeanDefinition();
    bd.setBeanClass(clazz);
    getDefaultListableBeanFactory().registerBeanDefinition(name, bd);
}

/**
 * Register a singleton bean with the underlying bean factory.
 * <p>For more advanced needs, register with the underlying BeanFactory directly.
 * @see #getDefaultListableBeanFactory
 */
public void registerSingleton(String name, Class clazz, MutablePropertyValues pvs) throws BeansException {
    GenericBeanDefinition bd = new GenericBeanDefinition();
    bd.setBeanClass(clazz);
    bd.setPropertyValues(pvs);
    getDefaultListableBeanFactory().registerBeanDefinition(name, bd);
}

/**
 * Register a prototype bean with the underlying bean factory.
 * <p>For more advanced needs, register with the underlying BeanFactory directly.
 * @see #getDefaultListableBeanFactory
 */
public void registerPrototype(String name, Class clazz) throws BeansException {
    GenericBeanDefinition bd = new GenericBeanDefinition();
    bd.setScope(GenericBeanDefinition.SCOPE_PROTOTYPE);
    bd.setBeanClass(clazz);
    getDefaultListableBeanFactory().registerBeanDefinition(name, bd);
}

/**
 * Register a prototype bean with the underlying bean factory.
 * <p>For more advanced needs, register with the underlying BeanFactory directly.
 * @see #getDefaultListableBeanFactory
 */
public void registerPrototype(String name, Class clazz, MutablePropertyValues pvs) throws BeansException {

```

```

GenericBeanDefinition bd = new GenericBeanDefinition();
bd.setScope(GenericBeanDefinition.SCOPE_PROTOTYPE);
bd.setBeanClass(clazz);
bd.setPropertyValues(pvs);
getDefaultListableBeanFactory().registerBeanDefinition(name, bd);
}

/**
 * Associate the given message with the given code.
 * @param code lookup code
 * @param locale locale message should be found within
 * @param defaultMessage message associated with this lookup code
 * @see #getStaticMessageSource
 */
public void addMessage(String code, Locale locale, String defaultMessage) {
    getStaticMessageSource().addMessage(code, locale, defaultMessage);
}

}

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 * limitations under the License.
 */

package org.springframework.context.support;

import org.springframework.beans.BeansException;
import org.springframework.context.ApplicationContext;
import org.springframework.core.io.ClassPathResource;
import org.springframework.core.io.Resource;
import org.springframework.util.Assert;

/**
 * Standalone XML application context, taking the context definition files
 * from the class path, interpreting plain paths as class path resource names
 * that include the package path (e.g. "mypackage/myresource.txt"). Useful for
 * test harnesses as well as for application contexts embedded within JARs.

```

```

*
* <p>The config location defaults can be overridden via { @link #getConfigLocations },
* Config locations can either denote concrete files like "/myfiles/context.xml"
* or Ant-style patterns like "/myfiles/*-context.xml" (see the
* { @link org.springframework.util.AntPathMatcher } javadoc for pattern details).
*
* <p>Note: In case of multiple config locations, later bean definitions will
* override ones defined in earlier loaded files. This can be leveraged to
* deliberately override certain bean definitions via an extra XML file.
*
* <p><b>This is a simple, one-stop shop convenience ApplicationContext.
* Consider using the { @link GenericApplicationContext } class in combination
* with an { @link org.springframework.beans.factory.xml.XmlBeanDefinitionReader }
* for more flexible context setup.</b>
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see #getResource
* @see #getResourceByPath
* @see GenericApplicationContext
*/
public class ClassPathXmlApplicationContext extends AbstractXmlApplicationContext {

    private Resource[] configResources;

    /**
     * Create a new ClassPathXmlApplicationContext for bean-style configuration.
     * @see #setConfigLocation
     * @see #setConfigLocations
     * @see #afterPropertiesSet()
     */
    public ClassPathXmlApplicationContext() {
    }

    /**
     * Create a new ClassPathXmlApplicationContext for bean-style configuration.
     * @param parent the parent context
     * @see #setConfigLocation
     * @see #setConfigLocations
     * @see #afterPropertiesSet()
     */
    public ClassPathXmlApplicationContext(ApplicationContext parent) {
        super(parent);
    }

    /**
     * Create a new ClassPathXmlApplicationContext, loading the definitions

```

```

* from the given XML file and automatically refreshing the context.
* @param configLocation resource location
* @throws BeansException if context creation failed
*/
public ClassPathXmlApplicationContext(String configLocation) throws BeansException {
    this(new String[] { configLocation }, true, null);
}

/**
 * Create a new ClassPathXmlApplicationContext, loading the definitions
 * from the given XML files and automatically refreshing the context.
 * @param configLocations array of resource locations
 * @throws BeansException if context creation failed
 */
public ClassPathXmlApplicationContext(String... configLocations) throws BeansException {
    this(configLocations, true, null);
}

/**
 * Create a new ClassPathXmlApplicationContext with the given parent,
 * loading the definitions from the given XML files and automatically
 * refreshing the context.
 * @param configLocations array of resource locations
 * @param parent the parent context
 * @throws BeansException if context creation failed
 */
public ClassPathXmlApplicationContext(String[] configLocations, ApplicationContext parent) throws
BeansException {
    this(configLocations, true, parent);
}

/**
 * Create a new ClassPathXmlApplicationContext, loading the definitions
 * from the given XML files.
 * @param configLocations array of resource locations
 * @param refresh whether to automatically refresh the context,
 * loading all bean definitions and creating all singletons.
 * Alternatively, call refresh manually after further configuring the context.
 * @throws BeansException if context creation failed
 * @see #refresh()
 */
public ClassPathXmlApplicationContext(String[] configLocations, boolean refresh) throws BeansException {
    this(configLocations, refresh, null);
}

/**
 * Create a new ClassPathXmlApplicationContext with the given parent,
 * loading the definitions from the given XML files.

```

```

* @param configLocations array of resource locations
* @param refresh whether to automatically refresh the context,
* loading all bean definitions and creating all singletons.
* Alternatively, call refresh manually after further configuring the context.
* @param parent the parent context
* @throws BeansException if context creation failed
* @see #refresh()
*/
public ClassPathXmlApplicationContext(String[] configLocations, boolean refresh, ApplicationContext parent)
    throws BeansException {

    super(parent);
    setConfigLocations(configLocations);
    if (refresh) {
        refresh();
    }
}

/**
 * Create a new ClassPathXmlApplicationContext, loading the definitions
 * from the given XML file and automatically refreshing the context.
 * <p>This is a convenience method to load class path resources relative to a
 * given Class. For full flexibility, consider using a GenericApplicationContext
 * with an XmlBeanDefinitionReader and a ClassPathResource argument.
 * @param path relative (or absolute) path within the class path
 * @param clazz the class to load resources with (basis for the given paths)
 * @throws BeansException if context creation failed
 * @see org.springframework.core.io.ClassPathResource#ClassPathResource(String, Class)
 * @see org.springframework.context.support.GenericApplicationContext
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
 */
public ClassPathXmlApplicationContext(String path, Class clazz) throws BeansException {
    this(new String[] { path }, clazz);
}

/**
 * Create a new ClassPathXmlApplicationContext, loading the definitions
 * from the given XML files and automatically refreshing the context.
 * @param paths array of relative (or absolute) paths within the class path
 * @param clazz the class to load resources with (basis for the given paths)
 * @throws BeansException if context creation failed
 * @see org.springframework.core.io.ClassPathResource#ClassPathResource(String, Class)
 * @see org.springframework.context.support.GenericApplicationContext
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
 */
public ClassPathXmlApplicationContext(String[] paths, Class clazz) throws BeansException {
    this(paths, clazz, null);
}

```



```

}

/**
 * Create a new ClassPathXmlApplicationContext with the given parent,
 * loading the definitions from the given XML files and automatically
 * refreshing the context.
 * @param paths array of relative (or absolute) paths within the class path
 * @param clazz the class to load resources with (basis for the given paths)
 * @param parent the parent context
 * @throws BeansException if context creation failed
 * @see org.springframework.core.io.ClassPathResource#ClassPathResource(String, Class)
 * @see org.springframework.context.support.GenericApplicationContext
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
 */
public ClassPathXmlApplicationContext(String[] paths, Class clazz, ApplicationContext parent)
    throws BeansException {

    super(parent);
    Assert.notNull(paths, "Path array must not be null");
    Assert.notNull(clazz, "Class argument must not be null");
    this.configResources = new Resource[paths.length];
    for (int i = 0; i < paths.length; i++) {
        this.configResources[i] = new ClassPathResource(paths[i], clazz);
    }
    refresh();
}

@Override
protected Resource[] getConfigResources() {
    return this.configResources;
}

}

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```

```

*/

package org.springframework.context.i18n;

import java.util.Locale;

import org.springframework.util.Assert;

/**
 * Simple implementation of the {@link LocaleContext} interface,
 * always returning a specified <code>Locale</code>.
 *
 * @author Juergen Hoeller
 * @since 1.2
 */
public class SimpleLocaleContext implements LocaleContext {

    private final Locale locale;

    /**
     * Create a new SimpleLocaleContext that exposes the specified Locale.
     * Every <code>getLocale()</code> will return this Locale.
     * @param locale the Locale to expose
     */
    public SimpleLocaleContext(Locale locale) {
        Assert.notNull(locale, "Locale must not be null");
        this.locale = locale;
    }

    public Locale getLocale() {
        return this.locale;
    }

    @Override
    public String toString() {
        return this.locale.toString();
    }

}

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*/

package org.springframework.context;

/**
 * Callback interface for initializing a Spring { @link ConfigurableApplicationContext }
 * prior to being { @linkplain ConfigurableApplicationContext#refresh() refreshed }.
 *
 * <p>Typically used within web applications that require some programmatic initialization
 * of the application context. For example, registering property sources or activating
 * profiles against the { @linkplain ConfigurableApplicationContext#getEnvironment()
 * context's environment }. See { @code ContextLoader } and { @code FrameworkServlet } support
 * for declaring a "contextInitializerClasses" context-param and init-param, respectively.
 *
 * <p>{ @code ApplicationContextInitializer } processors are encouraged to detect
 * whether Spring's { @link org.springframework.core.Ordered Ordered } interface has been
 * implemented or if the @ { @link org.springframework.core.annotation.Order Order }
 * annotation is present and to sort instances accordingly if so prior to invocation.
 *
 * @author Chris Beams
 * @since 3.1
 * @see org.springframework.web.context.ContextLoader#customizeContext
 * @see org.springframework.web.context.ContextLoader#CONTEXT_INITIALIZER_CLASSES_PARAM
 * @see org.springframework.web.servlet.FrameworkServlet#setContextInitializerClasses
 * @see org.springframework.web.servlet.FrameworkServlet#applyInitializers
 */
public interface ApplicationContextInitializer<C extends ConfigurableApplicationContext> {

    /**
     * Initialize the given application context.
     * @param applicationContext the application to configure
     */
    void initialize(C applicationContext);

}

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*/
```

```
package org.springframework.context.annotation;
```

```
/**
 * Marker subclass of {@link IllegalStateException}, allowing for explicit
 * catch clauses in calling code.
 *
 * @author Chris Beams
 * @since 3.1
 */
@SuppressWarnings("serial")
class ConflictingBeanDefinitionException extends IllegalStateException {
```

```
    public ConflictingBeanDefinitionException(String message) {
        super(message);
    }
```

```
    }
    /**
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     * limitations under the License.
     */
```

```
package org.springframework.context.annotation;
```

```
import org.springframework.beans.factory.support.BeanNameGenerator;
import org.springframework.context.support.GenericApplicationContext;
import org.springframework.core.env.ConfigurableEnvironment;
import org.springframework.util.Assert;
```

```

/**
 * Standalone application context, accepting annotated classes as input - in particular
 * { @link Configuration @Configuration}-annotated classes, but also plain
 * { @link org.springframework.stereotype.Component @Component} types and JSR-330 compliant
 * classes using { @code javax.inject} annotations. Allows for registering classes one by
 * one using { @link #register(Class...)} as well as for classpath scanning using
 * { @link #scan(String...)}.
 *
 * <p>In case of multiple { @code @Configuration} classes, @ { @link Bean} methods defined in
 * later classes will override those defined in earlier classes. This can be leveraged to
 * deliberately override certain bean definitions via an extra { @code @Configuration}
 * class.
 *
 * <p>See @ { @link Configuration} Javadoc for usage examples.
 *
 * @author Chris Beams
 * @author Juergen Hoeller
 * @since 3.0
 * @see #register
 * @see #scan
 * @see AnnotatedBeanDefinitionReader
 * @see ClassPathBeanDefinitionScanner
 * @see org.springframework.context.support.GenericXmlApplicationContext
 */
public class AnnotationConfigApplicationContext extends GenericApplicationContext {

    private final AnnotatedBeanDefinitionReader reader;

    private final ClassPathBeanDefinitionScanner scanner;

    /**
     * Create a new AnnotationConfigApplicationContext that needs to be populated
     * through { @link #register} calls and then manually { @linkplain #refresh refreshed}.
     */
    public AnnotationConfigApplicationContext() {
        this.reader = new AnnotatedBeanDefinitionReader(this);
        this.scanner = new ClassPathBeanDefinitionScanner(this);
    }

    /**
     * Create a new AnnotationConfigApplicationContext, deriving bean definitions
     * from the given annotated classes and automatically refreshing the context.
     * @param annotatedClasses one or more annotated classes,
     * e.g. { @link Configuration @Configuration} classes
     */
    public AnnotationConfigApplicationContext(Class<?>... annotatedClasses) {

```

```

this();
register(annotatedClasses);
refresh();
}

/**
 * Create a new AnnotationConfigApplicationContext, scanning for bean definitions
 * in the given packages and automatically refreshing the context.
 * @param basePackages the packages to check for annotated classes
 */
public AnnotationConfigApplicationContext(String... basePackages) {
    this();
    scan(basePackages);
    refresh();
}

/**
 * {@code @inheritDoc}
 * <p>Delegates given environment to underlying {@code AnnotatedBeanDefinitionReader}
 * and {@code ClassPathBeanDefinitionScanner} members.
 */
@Override
public void setEnvironment(ConfigurableEnvironment environment) {
    super.setEnvironment(environment);
    this.reader.setEnvironment(environment);
    this.scanner.setEnvironment(environment);
}

/**
 * Provide a custom {@code BeanNameGenerator} for use with {@code AnnotatedBeanDefinitionReader}
 * and/or {@code ClassPathBeanDefinitionScanner}, if any.
 * <p>Default is {@code org.springframework.context.annotation.AnnotationBeanNameGenerator}.
 * <p>Any call to this method must occur prior to calls to {@code #register(Class...)}
 * and/or {@code #scan(String...)}.
 * @see AnnotatedBeanDefinitionReader#setBeanNameGenerator
 * @see ClassPathBeanDefinitionScanner#setBeanNameGenerator
 */
public void setBeanNameGenerator(BeanNameGenerator beanNameGenerator) {
    this.reader.setBeanNameGenerator(beanNameGenerator);
    this.scanner.setBeanNameGenerator(beanNameGenerator);
}

/**
 * Set the {@code ScopeMetadataResolver} to use for detected bean classes.
 * <p>The default is an {@code AnnotationScopeMetadataResolver}.
 * <p>Any call to this method must occur prior to calls to {@code #register(Class...)}
 * and/or {@code #scan(String...)}.

```

```

*/
public void setScopeMetadataResolver(ScopeMetadataResolver scopeMetadataResolver) {
    this.reader.setScopeMetadataResolver(scopeMetadataResolver);
    this.scanner.setScopeMetadataResolver(scopeMetadataResolver);
}

/**
 * Register one or more annotated classes to be processed.
 * Note that { @link #refresh()} must be called in order for the context to fully
 * process the new class.
 * <p>Calls to { @link #register} are idempotent; adding the same
 * annotated class more than once has no additional effect.
 * @param annotatedClasses one or more annotated classes,
 * e.g. { @link Configuration @Configuration} classes
 * @see #scan(String...)
 * @see #refresh()
 */
public void register(Class<?>... annotatedClasses) {
    Assert.notEmpty(annotatedClasses, "At least one annotated class must be specified");
    this.reader.register(annotatedClasses);
}

/**
 * Perform a scan within the specified base packages.
 * Note that { @link #refresh()} must be called in order for the context to
 * fully process the new class.
 * @param basePackages the packages to check for annotated classes
 * @see #register(Class...)
 * @see #refresh()
 */
public void scan(String... basePackages) {
    Assert.notEmpty(basePackages, "At least one base package must be specified");
    this.scanner.scan(basePackages);
}
}

```

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1.1151 StAX API 1.0.1

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Version 2.0, January 2004

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1.1152 Staxon-core 1.2.0.wso2v2

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*/
package de.odysseus.staxon.xml;

import java.io.StringWriter;

import javax.xml.stream.XMLStreamException;
import javax.xml.stream.XMLStreamWriter;

import junit.framework.Assert;
```

```

import org.junit.Test;

import de.odysseus.staxon.xml.SimpleXMLStreamWriter;

public class SimpleXMLStreamWriterTest {
    /**
     * <code>&lt;alice&gt;bob&lt;/alice&gt;</code>
     */
    @Test
    public void testTextContent() throws Exception {
        StringWriter result = new StringWriter();
        XMLStreamWriter writer = new SimpleXMLStreamWriter(result, false);
        writer.writeStartDocument();
        writer.writeStartElement("alice");
        writer.writeCharacters("bob");
        writer.writeEndElement();
        writer.writeEndDocument();
        writer.close();
        Assert.assertEquals("<?xml version='1.0' encoding='UTF-8'?><alice>bob</alice>", result.toString());
    }

    /**
     * <code>&lt;alice&gt;bob&lt;/alice&gt;</code>
     */
    @Test
    public void testComment() throws Exception {
        StringWriter result = new StringWriter();
        XMLStreamWriter writer = new SimpleXMLStreamWriter(result, false);
        writer.writeStartDocument();
        writer.writeStartElement("alice");
        writer.writeComment("bob");
        writer.writeEndElement();
        writer.writeEndDocument();
        writer.close();
        Assert.assertEquals("<?xml version='1.0' encoding='UTF-8'?><alice><!--bob--></alice>", result.toString());
    }

    /**
     * <code>&lt;alice&gt;&amp;lt;&amp;gt;&amp;amp;'&lt;/alice&gt;</code>
     */
    @Test
    public void testEscapeCharacters() throws Exception {
        StringWriter result = new StringWriter();
        XMLStreamWriter writer = new SimpleXMLStreamWriter(result, false);
        writer.writeStartDocument();
        writer.writeStartElement("alice");
        writer.writeCharacters("<&'\");
    }

```

```

writer.writeEndElement();
writer.writeEndDocument();
writer.close();
Assert.assertEquals("<?xml version='1.0' encoding='UTF-8'?><alice>&lt;&gt;&amp;'</alice>",
result.toString());
}

/**
 * <code>&lt;alice&gt;&lt;![CDATA[&lt;&gt;&amp;]]&gt;&lt;/alice&gt;</code>
 */
@Test
public void testEscapeCDATA() throws Exception {
StringWriter result = new StringWriter();
XMLStreamWriter writer = new SimpleXMLStreamWriter(result, false);
writer.writeStartDocument();
writer.writeStartElement("alice");
writer.writeCDATA("<&'\");");
writer.writeEndElement();
writer.writeEndDocument();
writer.close();
Assert.assertEquals("<?xml version='1.0' encoding='UTF-8'?><alice><![CDATA[<&'\"]></alice>",
result.toString());
}

/**
 * <code>&lt;alice escape='&amp;&lt;&gt;&amp;&amp;&amp;quot;'&gt;&lt;/alice&gt;</code>
 */
@Test
public void testEscapeAttribute() throws Exception {
StringWriter result = new StringWriter();
XMLStreamWriter writer = new SimpleXMLStreamWriter(result, false);
writer.writeStartDocument();
writer.writeStartElement("alice");
writer.writeAttribute("escape", "<&'\");");
writer.writeEndElement();
writer.writeEndDocument();
writer.close();
Assert.assertEquals("<?xml version='1.0' encoding='UTF-8'?><alice
escape='&lt;&gt;&amp;&quot;'></alice>", result.toString());
}

/**
 * <code>&lt;alice&gt;&lt;bob&gt;charlie&lt;/bob&gt;&lt;david&gt;edgar&lt;/david&gt;&lt;/alice&gt;</code>
 */
@Test
public void testNested() throws Exception {
StringWriter result = new StringWriter();
XMLStreamWriter writer = new SimpleXMLStreamWriter(result, false);

```

```

writer.writeStartDocument();
writer.writeStartElement("alice");
writer.writeStartElement("bob");
writer.writeCharacters("charlie");
writer.writeEndElement();
writer.writeStartElement("david");
writer.writeCharacters("edgar");
writer.writeEndElement();
writer.writeEndElement();
writer.writeEndDocument();
writer.close();
Assert.assertEquals("<?xml version='1.0' encoding='UTF-
8'?><alice><bob>charlie</bob><david>edgar</david></alice>", result.toString());
}

/**
 * <code>&lt;alice&gt;&lt;bob&gt;charlie&lt;/bob&gt;&lt;bob&gt;david&lt;/bob&gt;&lt;/alice&gt;</code>
 */
@Test
public void testArray() throws Exception {
    StringWriter result = new StringWriter();
    XMLStreamWriter writer = new SimpleXMLStreamWriter(result, false);
    writer.writeStartDocument();
    writer.writeStartElement("alice");
    writer.writeStartElement("bob");
    writer.writeCharacters("charlie");
    writer.writeEndElement();
    writer.writeStartElement("bob");
    writer.writeCharacters("david");
    writer.writeEndElement();
    writer.writeEndElement();
    writer.writeEndDocument();
    writer.close();
    Assert.assertEquals("<?xml version='1.0' encoding='UTF-
8'?><alice><bob>charlie</bob><bob>david</bob></alice>", result.toString());
}

/**
 * <code>&lt;alice charlie="david"&gt;bob&lt;/alice&gt;</code>
 */
@Test
public void testAttributes() throws Exception {
    StringWriter result = new StringWriter();
    XMLStreamWriter writer = new SimpleXMLStreamWriter(result, false);
    writer.writeStartDocument();
    writer.writeStartElement("alice");
    writer.writeAttribute("charlie", "david");
    writer.writeCharacters("bob");

```

```

writer.writeEndElement();
writer.writeEndDocument();
writer.close();
Assert.assertEquals("<?xml version='1.0' encoding='UTF-8'?><alice charlie='david'>bob</alice>",
result.toString());
}

/**
 * <code>&lt;alice xmlns="http://some-namespace"&gt;bob&lt;/alice&gt;</code>
 */
@Test
public void testNamespaces() throws Exception {
    StringWriter result = new StringWriter();
    XMLStreamWriter writer = new SimpleXMLStreamWriter(result, false);
    writer.setDefaultNamespace("http://some-namespace");
    writer.writeStartDocument();
    writer.writeStartElement("alice");
    writer.writeDefaultNamespace("http://some-namespace");
    writer.writeCharacters("bob");
    writer.writeEndElement();
    writer.writeEndDocument();
    writer.close();
    Assert.assertEquals("<?xml version='1.0' encoding='UTF-8'?><alice xmlns='http://some-namespace'>bob</alice>", result.toString());
}

/**
 * <code>&lt;alice xmlns="http://some-namespace"&gt;bob&lt;/alice&gt;</code>
 */
@Test
public void testRepairNamespaces() throws Exception {
    StringWriter result = new StringWriter();
    XMLStreamWriter writer = new SimpleXMLStreamWriter(result, true);
    writer.writeStartDocument();
    writer.writeStartElement("http://some-namespace", "alice");
    writer.writeCharacters("bob");
    writer.writeEndElement();
    writer.writeEndDocument();
    writer.close();
    Assert.assertEquals("<?xml version='1.0' encoding='UTF-8'?><alice xmlns='http://some-namespace'>bob</alice>", result.toString());
}

@Test(expected = XMLStreamException.class)
public void testWriteElementMultipleRoots() throws XMLStreamException {
    XMLStreamWriter writer = new SimpleXMLStreamWriter(new StringWriter(), false);
    writer.writeStartElement("foo");
    writer.writeEndElement();
}

```

```

writer.writeStartElement("foo");
}

/**
 * <code>&lt;alice&gt;&lt;bar:bob xmlns:bar="http://bar" jane="dolly"/&gt;hello&lt;/alice&gt;</code>
 */
@Test
public void testOther() throws XMLStreamException {
    StringWriter result = new StringWriter();
    XMLStreamWriter writer = new SimpleXMLStreamWriter(result, false);
    writer.setDefaultNamespace("http://foo");
    writer.writeStartDocument();
    writer.writeStartElement("alice");
    writer.writeEmptyElement("bar", "bob", "http://bar");
    writer.writeNamespace("bar", "http://bar");
    writer.writeAttribute("jane", "dolly");
    writer.writeCharacters("hello");
    writer.writeEndElement();
    writer.writeEndDocument();
    writer.close();
    Assert.assertEquals("<?xml version='1.0' encoding='UTF-8'?'><alice><bar:bob xmlns:bar='http://bar'
jane='dolly'>hello</alice>", result.toString());
}
}
/*
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 */
package de.odysseus.staxon.xml;

import java.io.StringReader;

import javax.xml.XMLConstants;
import javax.xml.stream.XMLStreamConstants;
import javax.xml.stream.XMLStreamException;
import javax.xml.stream.XMLStreamReader;

```

```

import org.junit.Assert;
import org.junit.Test;

public class SimpleXMLStreamReaderTest {
    void verify(XMLStreamReader reader, int expectedEventType, String expectedLocalName, String expectedText) {
        Assert.assertEquals(expectedEventType, reader.getEventType());
        Assert.assertEquals(expectedLocalName, reader.getLocalName());
        Assert.assertEquals(expectedText, reader.getText());
    }

    /**
     * <code>&lt;alice&gt;bob&lt;/alice&gt;</code>
     */
    @Test
    public void testTextContent() throws XMLStreamException {
        String input = "<?xml version='1.0'?><alice>bob</alice>";
        XMLStreamReader reader = new SimpleXMLStreamReader(new StringReader(input));
        verify(reader, XMLStreamConstants.START_DOCUMENT, null, null);
        reader.next();
        verify(reader, XMLStreamConstants.START_ELEMENT, "alice", null);
        reader.next();
        verify(reader, XMLStreamConstants.CHARACTERS, null, "bob");
        reader.next();
        verify(reader, XMLStreamConstants.END_ELEMENT, "alice", null);
        reader.next();
        verify(reader, XMLStreamConstants.END_DOCUMENT, null, null);
        reader.close();
    }

    /**
     * <code>&lt;alice&gt;bob&lt;/alice&gt;</code>
     */
    @Test
    public void testComment() throws XMLStreamException {
        String input = "<?xml version='1.0'?><alice><!--bob--></alice>";
        XMLStreamReader reader = new SimpleXMLStreamReader(new StringReader(input));
        verify(reader, XMLStreamConstants.START_DOCUMENT, null, null);
        reader.next();
        verify(reader, XMLStreamConstants.START_ELEMENT, "alice", null);
        reader.next();
        verify(reader, XMLStreamConstants.COMMENT, null, "bob");
        reader.next();
        verify(reader, XMLStreamConstants.END_ELEMENT, "alice", null);
        reader.next();
        verify(reader, XMLStreamConstants.END_DOCUMENT, null, null);
        reader.close();
    }
}

```

```

/**
 * <code>&lt;alice&gt;&amp;lt;&amp;gt;&amp;gt;&amp;""&lt;/alice&gt;</code>
 */
@Test
public void testEscapeCharacters() throws XMLStreamException {
    String input = "<?xml version='1.0'?><alice>&lt;&gt;&amp;\"</alice>";
    XMLStreamReader reader = new SimpleXMLStreamReader(new StringReader(input));
    verify(reader, XMLStreamConstants.START_DOCUMENT, null, null);
    reader.next();
    verify(reader, XMLStreamConstants.START_ELEMENT, "alice", null);
    reader.next();
    verify(reader, XMLStreamConstants.CHARACTERS, null, "<&\"");
    reader.next();
    verify(reader, XMLStreamConstants.END_ELEMENT, "alice", null);
    reader.next();
    verify(reader, XMLStreamConstants.END_DOCUMENT, null, null);
    reader.close();
}

/**
 * <code>&lt;alice&gt;&lt;!CDATA[&lt;&gt;&amp;\"&gt;&lt;/alice&gt;</code>
 */
@Test
public void testEscapeCData() throws XMLStreamException {
    String input = "<?xml version='1.0'?><alice>&lt;!CDATA[&lt;&\"&gt;&lt;/alice>";
    XMLStreamReader reader = new SimpleXMLStreamReader(new StringReader(input));
    verify(reader, XMLStreamConstants.START_DOCUMENT, null, null);
    reader.next();
    verify(reader, XMLStreamConstants.START_ELEMENT, "alice", null);
    reader.next();
    verify(reader, XMLStreamConstants.CDATA, null, "<&\"");
    reader.next();
    verify(reader, XMLStreamConstants.END_ELEMENT, "alice", null);
    reader.next();
    verify(reader, XMLStreamConstants.END_DOCUMENT, null, null);
    reader.close();
}

/**
 * <code>&lt;alice escape="&amp;lt;&amp;gt;&amp;amp;amp;\"&gt;&lt;/alice&gt;</code>
 */
@Test
public void testEscapeAttribute() throws XMLStreamException {
    String input = "<?xml version='1.0'?><alice escape='&lt;&gt;&amp;\"&gt;&lt;/alice>";
    XMLStreamReader reader = new SimpleXMLStreamReader(new StringReader(input));
    verify(reader, XMLStreamConstants.START_DOCUMENT, null, null);
    reader.next();
    verify(reader, XMLStreamConstants.START_ELEMENT, "alice", null);

```



```

Assert.assertEquals("<&\'", reader.getAttributeValue(XMLConstants.NULL_NS_URI, "escape"));
reader.next();
verify(reader, XMLStreamConstants.END_ELEMENT, "alice", null);
reader.next();
verify(reader, XMLStreamConstants.END_DOCUMENT, null, null);
reader.close();
}

/**
 * <code>&lt;alice&gt;&lt;bob&gt;charlie&lt;/bob&gt;&lt;david&gt;edgar&lt;/david&gt;&lt;/alice&gt;</code>
 */
@Test
public void testNested() throws Exception {
String input = "<?xml version='1.0'?><alice><bob>charlie</bob><david>edgar</david></alice>";
XMLStreamReader reader = new SimpleXMLStreamReader(new StringReader(input));
verify(reader, XMLStreamConstants.START_DOCUMENT, null, null);
reader.next();
verify(reader, XMLStreamConstants.START_ELEMENT, "alice", null);
reader.next();
verify(reader, XMLStreamConstants.START_ELEMENT, "bob", null);
reader.next();
verify(reader, XMLStreamConstants.CHARACTERS, null, "charlie");
reader.next();
verify(reader, XMLStreamConstants.END_ELEMENT, "bob", null);
reader.next();
verify(reader, XMLStreamConstants.START_ELEMENT, "david", null);
reader.next();
verify(reader, XMLStreamConstants.CHARACTERS, null, "edgar");
reader.next();
verify(reader, XMLStreamConstants.END_ELEMENT, "david", null);
reader.next();
verify(reader, XMLStreamConstants.END_ELEMENT, "alice", null);
reader.next();
verify(reader, XMLStreamConstants.END_DOCUMENT, null, null);
reader.close();
}

/**
 * <code>&lt;alice&gt;&lt;bob&gt;charlie&lt;/bob&gt;&lt;bob&gt;david&lt;/bob&gt;&lt;/alice&gt;</code>
 */
@Test
public void testArray() throws Exception {
String input = "<?xml version='1.0'?><alice><bob>charlie</bob><bob>david</bob></alice>";
XMLStreamReader reader = new SimpleXMLStreamReader(new StringReader(input));
verify(reader, XMLStreamConstants.START_DOCUMENT, null, null);
reader.next();
verify(reader, XMLStreamConstants.START_ELEMENT, "alice", null);
reader.next();

```

```

verify(reader, XMLStreamConstants.START_ELEMENT, "bob", null);
reader.next();
verify(reader, XMLStreamConstants.CHARACTERS, null, "charlie");
reader.next();
verify(reader, XMLStreamConstants.END_ELEMENT, "bob", null);
reader.next();
verify(reader, XMLStreamConstants.START_ELEMENT, "bob", null);
reader.next();
verify(reader, XMLStreamConstants.CHARACTERS, null, "david");
reader.next();
verify(reader, XMLStreamConstants.END_ELEMENT, "bob", null);
reader.next();
verify(reader, XMLStreamConstants.END_ELEMENT, "alice", null);
reader.next();
verify(reader, XMLStreamConstants.END_DOCUMENT, null, null);
reader.close();
}

/**
 * <code>&lt;alice charlie="david"&gt;bob&lt;/alice&gt;</code>
 */
@Test
public void testAttributes() throws Exception {
    String input = "<?xml version='1.0'?><alice charlie='david'>bob</alice>";
    XMLStreamReader reader = new SimpleXMLStreamReader(new StringReader(input));
    verify(reader, XMLStreamConstants.START_DOCUMENT, null, null);
    reader.next();
    verify(reader, XMLStreamConstants.START_ELEMENT, "alice", null);
    Assert.assertEquals(1, reader.getAttributeCount());
    Assert.assertEquals("david", reader.getAttributeValue(null, "charlie"));
    Assert.assertEquals("david", reader.getAttributeValue(XMLConstants.NULL_NS_URI, "charlie"));
    reader.next();
    verify(reader, XMLStreamConstants.CHARACTERS, null, "bob");
    reader.next();
    verify(reader, XMLStreamConstants.END_ELEMENT, "alice", null);
    reader.next();
    verify(reader, XMLStreamConstants.END_DOCUMENT, null, null);
    reader.close();
}

/**
 * <code>&lt;alice xmlns="http://some-namespace"&gt;bob&lt;/alice&gt;</code>
 */
@Test
public void testNamespaces() throws Exception {
    String input = "<?xml version='1.0'?><alice xmlns='http://some-namespace'>bob</alice>";
    XMLStreamReader reader = new SimpleXMLStreamReader(new StringReader(input));
    verify(reader, XMLStreamConstants.START_DOCUMENT, null, null);

```

```

reader.next();
verify(reader, XMLStreamConstants.START_ELEMENT, "alice", null);
Assert.assertEquals("http://some-namespace", reader.getNamespaceURI());
Assert.assertEquals(0, reader.getAttributeCount());
reader.next();
verify(reader, XMLStreamConstants.CHARACTERS, null, "bob");
reader.next();
verify(reader, XMLStreamConstants.END_ELEMENT, "alice", null);
Assert.assertEquals("http://some-namespace", reader.getNamespaceURI());
reader.next();
verify(reader, XMLStreamConstants.END_DOCUMENT, null, null);
reader.close();
}

```

@Test

```

public void testOther() throws Exception {
    String input = "<?xml version='1.0'?><alice><bar:bob xmlns:bar='http://bar' jane='dolly' />hello</alice>";
    XMLStreamReader reader = new SimpleXMLStreamReader(new StringReader(input));
    verify(reader, XMLStreamConstants.START_DOCUMENT, null, null);
    reader.next();
    verify(reader, XMLStreamConstants.START_ELEMENT, "alice", null);
    reader.next();
    verify(reader, XMLStreamConstants.START_ELEMENT, "bob", null);
    Assert.assertEquals("http://bar", reader.getNamespaceURI());
    Assert.assertEquals(1, reader.getAttributeCount());
    Assert.assertEquals("dolly", reader.getAttributeValue(null, "jane"));
    reader.next();
    verify(reader, XMLStreamConstants.END_ELEMENT, "bob", null);
    reader.next();
    verify(reader, XMLStreamConstants.CHARACTERS, null, "hello");
    reader.next();
    verify(reader, XMLStreamConstants.END_ELEMENT, "alice", null);
    reader.next();
    verify(reader, XMLStreamConstants.END_DOCUMENT, null, null);
    reader.close();
}

```

/**

```
* <code>&lt;alice&gt;bob&lt;/alice&gt;</code>
```

*/

@Test

```

public void testVersionEncodingStandalone() throws XMLStreamException {
    XMLStreamReader reader = new SimpleXMLStreamReader(new StringReader("<?xml?>"));
    Assert.assertNull(reader.getVersion());
    Assert.assertNull(reader.getCharacterEncodingScheme());
    Assert.assertFalse(reader.isStandalone());
    Assert.assertFalse(reader.standaloneSet());
}

```

```

String input = "<?xml version=\\"1.1\\" encoding=\\"US-ASCII\\" standalone=\\"yes\\"?>";
reader = new SimpleXMLStreamReader(new StringReader(input));
Assert.assertEquals("1.1", reader.getVersion());
Assert.assertEquals("US-ASCII", reader.getCharacterEncodingScheme());
Assert.assertTrue(reader.isStandalone());
Assert.assertTrue(reader.standaloneSet());

reader.close();
}

}
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 */
package de.odysseus.staxon.xml;

import java.io.IOException;
import java.io.Reader;
import java.util.regex.Matcher;
import java.util.regex.Pattern;

import javax.xml.XMLConstants;
import javax.xml.stream.XMLStreamConstants;
import javax.xml.stream.XMLStreamException;

import de.odysseus.staxon.base.AbstractXMLStreamReader;
import de.odysseus.staxon.base.XMLStreamReaderScope;

/**
 * Simple XML Stream Reader.
 *
 * The scope info is the element tag name.
 */
public class SimpleXMLStreamReader extends AbstractXMLStreamReader<String> {
    private final Reader reader;
    private int ch;

```

```

public SimpleXMLStreamReader(Reader reader) throws XMLStreamException {
    super(null);
    this.reader = reader;
    try {
        nextChar();
    } catch (IOException e) {
        throw new XMLStreamException(e);
    }
    initialize();
}

private void readAttrNsDecl(String name, String value) throws XMLStreamException {
    int separator = name.indexOf(':');
    if (separator < 0) {
        if (XMLConstants.XMLNS_ATTRIBUTE.equals(name)) {
            readNsDecl(XMLConstants.DEFAULT_NS_PREFIX, value);
        } else {
            readAttr(XMLConstants.DEFAULT_NS_PREFIX, name, null, value);
        }
    } else {
        if (name.startsWith(XMLConstants.XMLNS_ATTRIBUTE) && separator ==
XMLConstants.XMLNS_ATTRIBUTE.length()) {
            readNsDecl(name.substring(separator+1), value);
        } else {
            readAttr(name.substring(0, separator), name.substring(separator+1), null, value);
        }
    }
}

@Override
protected boolean consume() throws XMLStreamException, IOException {
    XMLStreamReaderScope<String> scope = getScope();
    skipWhitespace();

    if (ch == -1) {
        if (isStartDocumentRead()) {
            readEndDocument();
        }
        return false;
    }

    if (ch == '<') {
        nextChar();
        if (ch == '/') { // END_ELEMENT
            nextChar();
            String tagName = readName('>');
            if (scope.getInfo().equals(tagName)) {

```

```

readEndElementTag();
} else {
    throw new XMLStreamException("not well-formed");
}
} else if (ch == '?') { // START_DOPCUMENT | PROCESSING_INSTRUCTION
    nextChar();
    String target = readName('?');
    String data = null;
    if (ch != '?') {
        data = readText('?');
    }
    nextChar(); // please, let it be '>'
    if ("xml".equals(target)) {
        String version = null;
        String encoding = null;
        Boolean standalone = null;
        if (data != null) {
            Matcher matcher = Pattern.compile("(\\w+)\\s*=\\s*(\\S+)").matcher(data);
            while (matcher.find()) {
                String name = matcher.group(1);
                String value = matcher.group(2);
                if ("version".equals(name)) {
                    if (!"1.0".equals(value) && !"1.1".equals(value)) {
                        throw new XMLStreamException("Bad XML version: " + value);
                    }
                    version = value;
                } else if ("encoding".equals(name)) {
                    encoding = value;
                } else if ("standalone".equals(name)) {
                    if (!"yes".equals(value) && !"no".equals(value)) {
                        throw new XMLStreamException("Bad XML version: " + value);
                    }
                    standalone = value.equals("yes");
                } else {
                    throw new XMLStreamException("Bad xml XML declaration attribute: " + name);
                }
            }
        }
        readStartDocument(version, encoding, standalone);
    } else {
        readPI(target, data);
    }
} else if (ch == '!') { // COMMENT | CDATA
    nextChar();
    switch (ch) {
        case '-': // COMMENT
            String comment = readData('-');
            if (!comment.startsWith("-")) {

```

```

        throw new XMLStreamException("expected comment");
    }
    readData(comment.substring(1, comment.length() - 3), null, XMLStreamConstants.COMMENT);
    break;
case '[': // CDATA
    String cdata = readData('');
    if (!cdata.startsWith("CDATA[")) {
        throw new XMLStreamException("expected cdata");
    }
    readData(cdata.substring(6, cdata.length() - 3), null, XMLStreamConstants.CDATA);
    break;
}
} else { // START_ELEMENT
    String tagName = readName(' ');
    int colon = tagName.indexOf(':');
    if (colon < 0) {
        readStartElementTag(XMLConstants.DEFAULT_NS_PREFIX, tagName, null, tagName);
    } else {
        readStartElementTag(tagName.substring(0, colon), tagName.substring(colon+1), null, tagName);
    }
    scope = getScope();
    while (ch != '>' && ch != '/') {
        String name = readName('=');
        nextChar();
        skipWhitespace();
        int quote = ch;
        nextChar();
        String value = readText(quote);
        nextChar();
        skipWhitespace();
        readAttrNsDecl(name, value);
    }
    if (ch == '/') {
        nextChar(); // please, let it be '>'
        readEndElementTag();
    } else {
        nextChar();
        return consume();
    }
}
}
nextChar();
} else {
    String text = readText('<');
    readData(text, null, XMLStreamConstants.CHARACTERS);
}
return true;
}
}

```

```

private void nextChar() throws IOException {
    ch = reader.read();
}

private void skipWhitespace() throws IOException {
    if (Character.isWhitespace(ch)) {
        do {
            nextChar();
        } while (Character.isWhitespace(ch));
    }
}

private String readData(final int end) throws IOException {
    StringBuilder data = new StringBuilder();
    int state = 0;
    do {
        nextChar();
        data.append((char)ch);
        if ((ch == end && state != 2) || (ch == '>' && state == 2)) {
            state++;
        } else {
            state = 0;
        }
    } while (state < 3);
    return data.toString();
}

private String readText(final int end) throws IOException {
    final StringBuilder builder = new StringBuilder();
    while (ch != end && ch >= 0) {
        if (ch == '&') {
            nextChar();
            String entity = readName(';');
            if ("lt".equals(entity)) {
                builder.append('<');
            } else if ("gt".equals(entity)) {
                builder.append('>');
            } else if ("amp".equals(entity)) {
                builder.append('&');
            } else if ("quot".equals(entity)) {
                builder.append("");
            } else if ("apos".equals(entity)) {
                builder.append("\\'");
            } else {
                builder.append('?');
            }
        } else {
    }
}

```



```

    builder.append((char)ch);
    }
    nextChar();
    }
    return builder.toString();
    }

private String readName(final int end) throws IOException {
    skipWhitespace();
    final StringBuilder builder = new StringBuilder();
    do {
        builder.append((char)ch);
        nextChar();
    } while (ch != end && ch != '>' && ch != '/' && !Character.isWhitespace(ch));
    skipWhitespace();
    return builder.toString();
    }
}
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 */
package de.odysseus.staxon.xml;

import java.io.IOException;
import java.io.Writer;

import javax.xml.XMLConstants;
import javax.xml.stream.XMLStreamConstants;
import javax.xml.stream.XMLStreamException;

import de.odysseus.staxon.base.AbstractXMLStreamWriter;

/**
 * Simple XML Stream Writer.
 *
 * The scope info is the element tag name.
 */

```

```

*/
public class SimpleXMLStreamWriter extends AbstractXMLStreamWriter<String> {
    private final Writer writer;

    public SimpleXMLStreamWriter(Writer writer, boolean repairNamespaces) {
        super(null, repairNamespaces);
        this.writer = writer;
    }

    private void writeEscaped(String string, boolean attribute) throws IOException {
        for (int i = 0; i < string.length(); i++) {
            char c = string.charAt(i);
            switch (c) {
                case '<':
                    writer.write("&lt;");
                    break;
                case '>':
                    writer.write("&gt;");
                    break;
                case '&':
                    writer.write("&amp;");
                    break;
                default:
                    if (c == '"' && attribute) {
                        writer.write("&quot;");
                    } else {
                        writer.write(c);
                    }
            }
        }
    }

    private String getTagName(String prefix, String localName) {
        return XMLConstants.DEFAULT_NS_PREFIX.equals(prefix) ? localName : prefix + ':' + localName;
    }

    @Override
    public void flush() throws XMLStreamException {
        try {
            writer.flush();
        } catch (IOException e) {
            throw new XMLStreamException(e);
        }
    }

    @Override
    protected String writeStartElementTag(String prefix, String localName, String namespaceURI) throws
XMLStreamException {

```

```

if (getScope().isRoot() && getScope().getLastChild() != null) {
    throw new XMLStreamException("Multiple roots within document");
}
String tagName = getTagName(prefix, localName);
try {
    writer.write('<');
    writer.write(tagName);
} catch (IOException e) {
    throw new XMLStreamException(e);
}
return tagName;
}

```

@Override

```

protected void writeStartElementTagEnd() throws XMLStreamException {
    try {
        if (getScope().isEmptyElement()) {
            writer.write('/');
        }
        writer.write('>');
    } catch (IOException e) {
        throw new XMLStreamException(e);
    }
}

```

@Override

```

protected void writeEndElementTag() throws XMLStreamException {
    try {
        writer.write('<');
        writer.write('/');
        writer.write(getScope().getInfo());
        writer.write('>');
    } catch (IOException e) {
        throw new XMLStreamException(e);
    }
}

```

@Override

```

protected void writeAttr(String prefix, String localName, String namespaceURI, String value) throws
XMLStreamException {
    try {
        writer.write(' ');
        if (!XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
            writer.write(prefix);
            writer.write(':');
        }
        writer.write(localName);
        writer.write('=');
    }
}

```

```

writer.write("");
writeEscaped(value, true);
writer.write("");
} catch (IOException e) {
throw new XMLStreamException(e);
}
}

```

@Override

```

protected void writeNsDecl(String prefix, String namespaceURI) throws XMLStreamException {
try {
writer.write(' ');
writer.write(XMLConstants.XMLNS_ATTRIBUTE);
if (!XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
writer.write(':');
writer.write(prefix);
}
writer.write('=');
writer.write("");
writer.write(namespaceURI);
writer.write("");
} catch (IOException e) {
throw new XMLStreamException(e);
}
}

```

@Override

```

protected void writeData(Object data, int type) throws XMLStreamException {
try {
switch(type) {
case XMLStreamConstants.CHARACTERS:
writeEscaped(data.toString(), false);
break;
case XMLStreamConstants.CDATA:
writer.write("<![CDATA[");
writer.write(data.toString());
writer.write("]]>");
break;
case XMLStreamConstants.COMMENT:
writer.write("<!--");
writeEscaped(data.toString(), false);
writer.write("-->");
break;
case XMLStreamConstants.ENTITY_REFERENCE:
writer.write('&');
writer.write(data.toString());
writer.write(';');
break;

```

```

default:
    throw new UnsupportedOperationException("Cannot write data of type " + type);
    }
} catch (IOException e) {
    throw new XMLStreamException(e);
    }
}

@Override
protected void writePI(String target, String data) throws XMLStreamException {
    try {
        writer.write("<?");
        writer.write(target);
        if (data != null) {
            writer.write(' ');
            writer.write(data);
        }
        writer.write(">");
    } catch (IOException e) {
        throw new XMLStreamException(e);
    }
}

}
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 */
package de.odysseus.staxon.xml;

import java.io.OutputStream;
import java.io.OutputStreamWriter;
import java.io.UnsupportedEncodingException;
import java.io.Writer;

import javax.xml.stream.XMLEventWriter;
import javax.xml.stream.XMLOutputFactory;

```

```

import javax.xml.stream.XMLStreamException;
import javax.xml.stream.XMLStreamWriter;

import de.odysseus.staxon.base.AbstractXMLOutputFactory;
import de.odysseus.staxon.event.SimpleXMLEventWriter;

public class SimpleXMLOutputFactory extends AbstractXMLOutputFactory {
    public SimpleXMLOutputFactory() {
        /*
         * initialize properties
         */
        super.setProperty(IS_REPAIRING_NAMESPACES, Boolean.FALSE);
    }

    @Override
    public SimpleXMLStreamWriter createXMLStreamWriter(OutputStream stream, String encoding) throws
XMLStreamException {
        try {
            return createXMLStreamWriter(new OutputStreamWriter(stream, encoding));
        } catch (UnsupportedEncodingException e) {
            throw new XMLStreamException(e);
        }
    }

    @Override
    public SimpleXMLStreamWriter createXMLStreamWriter(Writer stream) throws XMLStreamException {
        return new SimpleXMLStreamWriter(stream,
Boolean.TRUE.equals(getProperty(IS_REPAIRING_NAMESPACES)));
    }

    @Override
    public SimpleXMLStreamWriter createXMLStreamWriter(OutputStream stream) throws XMLStreamException {
        return createXMLStreamWriter(stream, "UTF-8");
    }

    @Override
    public XMLEventWriter createXMLEventWriter(XMLStreamWriter writer) throws XMLStreamException {
        return new SimpleXMLEventWriter(writer);
    }

    @Override
    public void setProperty(String name, Object value) throws IllegalArgumentException {
        if (XMLOutputFactory.IS_REPAIRING_NAMESPACES.equals(name)) {
            if (!getProperty(name).equals(value)) {
                throw new IllegalArgumentException("Cannot change property: " + name);
            }
        } else if (super.isPropertySupported(name)) {
            super.setProperty(name, value);
        }
    }
}

```

```

    } else {
        throw new IllegalArgumentException("Unsupported property: " + name);
    }
}
}
}
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 */
package de.odysseus.staxon.xml;

import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.Reader;
import java.io.UnsupportedEncodingException;

import javax.xml.stream.EventFilter;
import javax.xml.stream.XMLEventReader;
import javax.xml.stream.XMLReporter;
import javax.xml.stream.XMLResolver;
import javax.xml.stream.XMLStreamException;
import javax.xml.stream.XMLStreamReader;

import de.odysseus.staxon.base.AbstractXMLInputFactory;
import de.odysseus.staxon.event.SimpleXMLEventReader;
import de.odysseus.staxon.event.SimpleXMLFilteredEventReader;

public class SimpleXMLInputFactory extends AbstractXMLInputFactory {
    public SimpleXMLInputFactory() {
        /*
         * initialize properties
         */
        super.setProperty(IS_COALESCING, Boolean.FALSE);
        super.setProperty(IS_NAMESPACE_AWARE, Boolean.TRUE);
        super.setProperty(IS_REPLACING_ENTITY_REFERENCES, Boolean.TRUE);
        super.setProperty(IS_SUPPORTING_EXTERNAL_ENTITIES, Boolean.FALSE);
        super.setProperty(IS_VALIDATING, Boolean.FALSE);
    }
}

```

```
super.setProperty(SUPPORT_DTD, Boolean.FALSE);
}
```

```
@Override
```

```
public SimpleXMLStreamReader createXMLStreamReader(InputStream stream, String encoding) throws
XMLStreamException {
    try {
        return createXMLStreamReader(new InputStreamReader(stream, encoding));
    } catch (UnsupportedEncodingException e) {
        throw new XMLStreamException(e);
    }
}
```

```
@Override
```

```
public SimpleXMLStreamReader createXMLStreamReader(String systemId, InputStream stream) throws
XMLStreamException {
    return createXMLStreamReader(stream);
}
```

```
@Override
```

```
public SimpleXMLStreamReader createXMLStreamReader(String systemId, Reader reader) throws
XMLStreamException {
    return createXMLStreamReader(reader);
}
```

```
@Override
```

```
public SimpleXMLStreamReader createXMLStreamReader(Reader reader) throws XMLStreamException {
    return new SimpleXMLStreamReader(reader);
}
```

```
@Override
```

```
public SimpleXMLStreamReader createXMLStreamReader(InputStream stream) throws XMLStreamException {
    return createXMLStreamReader(stream, "UTF-8");
}
```

```
@Override
```

```
public XMLEventReader createXMLEventReader(XMLStreamReader reader) throws XMLStreamException {
    if (getEventAllocator() == null) {
        return new SimpleXMLEventReader(reader);
    } else {
        return new SimpleXMLEventReader(reader, getEventAllocator().newInstance());
    }
}
```

```
@Override
```

```
public XMLEventReader createFilteredReader(XMLEventReader reader, EventFilter filter) throws
XMLStreamException {
    return new SimpleXMLFilteredEventReader(reader, filter);
}
```



```

}

@Override
public void setXMLResolver(XMLResolver resolver) {
    throw new UnsupportedOperationException();
}

@Override
public void setXMLReporter(XMLReporter reporter) {
    throw new UnsupportedOperationException();
}

@Override
public void setProperty(String name, Object value) throws IllegalArgumentException {
    if (IS_NAMESPACE_AWARE.equals(name)) {
        if (!getProperty(name).equals(value)) {
            throw new IllegalArgumentException("Cannot change property: " + name);
        }
    } else if (IS_REPLACING_ENTITY_REFERENCES.equals(name)) {
        if (!getProperty(name).equals(value)) {
            throw new IllegalArgumentException("Cannot change property: " + name);
        }
    } else if (IS_SUPPORTING_EXTERNAL_ENTITIES.equals(name)) {
        if (!getProperty(name).equals(value)) {
            throw new IllegalArgumentException("Cannot change property: " + name);
        }
    } else if (IS_VALIDATING.equals(name)) {
        if (!getProperty(name).equals(value)) {
            throw new IllegalArgumentException("Cannot change property: " + name);
        }
    } else if (SUPPORT_DTD.equals(name)) {
        if (!getProperty(name).equals(value)) {
            throw new IllegalArgumentException("Cannot change property: " + name);
        }
    } else if (super.isPropertySupported(name)) {
        super.setProperty(name, value);
    } else {
        throw new IllegalArgumentException("Unsupported property: " + name);
    }
}
}
}
}
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*/
package de.odysseus.staxon.json.jaxb.sample;

import java.util.List;

import javax.xml.bind.annotation.XmlAttribute;
import javax.xml.bind.annotation.XmlElement;
import javax.xml.bind.annotation.XmlRootElement;

import de.odysseus.staxon.json.jaxb.JsonXML;

@XmlRootElement
@JsonXML(multiplePaths = "/elements")
public class SampleRootElement {
    @XmlAttribute
    public String attribute;

    @XmlElement
    public List<String> elements;
}
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* limitations under the License.
*/
package de.odysseus.staxon.json.jaxb.sample;

import javax.xml.bind.annotation.XmlElement;
import javax.xml.bind.annotation.XmlType;

@XmlType(namespace = "urn:staxon:jaxb:test")

```

```

public class SampleTypeWithNamespace {
    @XmlElement
    String element;
}
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 */
package de.odysseus.staxon.json.jaxb.sample;

import javax.xml.bind.annotation.XmlElement;
import javax.xml.bind.annotation.XmlType;

@XmlType
public class SampleType {
    @XmlElement
    public String element;
}
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 */
package de.odysseus.staxon.json.stream.util;

import java.io.IOException;
import java.io.StringWriter;

```

```

import javax.xml.stream.XMLStreamWriter;

import org.junit.Assert;
import org.junit.Test;

import de.odysseus.staxon.json.JsonXMLStreamConstants;
import de.odysseus.staxon.json.JsonXMLStreamWriter;
import de.odysseus.staxon.json.stream.impl.JsonStreamFactoryImpl;

public class AutoPrimitiveTargetTest {
    private AutoPrimitiveTarget createTarget(StringWriter result) throws IOException {
        return new AutoPrimitiveTarget(new JsonStreamFactoryImpl().createJsonStreamTarget(result, false), false);
    }

    private JsonXMLStreamWriter createXmlStreamWriter(StringWriter result) throws IOException {
        return new JsonXMLStreamWriter(createTarget(result), false, true, ':', true);
    }

    /**
     * <code>&lt;alice&gt;bob&lt;/alice&gt;</code>
     */
    @Test
    public void testString() throws Exception {
        StringWriter result = new StringWriter();
        XMLStreamWriter writer = createXmlStreamWriter(result);
        writer.writeStartDocument();
        writer.writeStartElement("alice");
        writer.writeCharacters("bob");
        writer.writeEndElement();
        writer.writeEndDocument();
        writer.close();
        Assert.assertEquals("{\"alice\":\"bob\"}", result.toString());
    }

    /**
     * <code>&lt;alice edgar="999"
     &gt;&lt;bob&gt;123&lt;/bob&gt;&lt;bob&gt;123.4&lt;/bob&gt;&lt;/alice&gt;</code>
     */
    @Test
    public void testNumber() throws Exception {
        StringWriter result = new StringWriter();
        XMLStreamWriter writer = createXmlStreamWriter(result);
        writer.writeStartDocument();
        writer.writeStartElement("alice");
        writer.writeAttribute("edgar", "999");
        writer.writeProcessingInstruction(JsonXMLStreamConstants.MULTIPLE_PI_TARGET);
        writer.writeStartElement("bob");

```

```

writer.writeCharacters("123");
writer.writeEndElement();
writer.writeStartElement("bob");
writer.writeCharacters("123.4");
writer.writeEndElement();
writer.writeEndElement();
writer.writeEndDocument();
writer.close();
Assert.assertEquals("{\"alice\":{\"@edgar\":\"999\",\"bob\":[123,123.4]}}", result.toString());
}
}
/*
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 * limitations under the License.
 */
package de.odysseus.staxon.json.stream.impl;

import java.io.IOException;
import java.io.StringWriter;

import junit.framework.Assert;

import org.junit.Test;

public class JsonStreamTargetImplTest {
    @Test
    public void testStringValue() throws IOException {
        StringWriter writer = new StringWriter();
        JsonStreamTargetImpl target = new JsonStreamTargetImpl(writer, true);

        target.value("bob");

        target.close();

        Assert.assertEquals("\"bob\"", writer.toString());
    }
}

```

```

@Test
public void testObjectValue() throws IOException {
    StringWriter writer = new StringWriter();
    JsonStreamTargetImpl target = new JsonStreamTargetImpl(writer, true);

    target.startObject();
    target.name("alice");
    target.value("bob");
    target.endObject();

    target.close();

    Assert.assertEquals("{\"alice\":\"bob\"}", writer.toString());
}

```

```

@Test
public void testArrayValue() throws IOException {
    StringWriter writer = new StringWriter();
    JsonStreamTargetImpl target = new JsonStreamTargetImpl(writer, true);

    target.startArray();
    target.value("bob");
    target.endArray();

    target.close();

    Assert.assertEquals("[\"bob\"]", writer.toString());
}

```

```

@Test
public void testArray1() throws IOException {
    StringWriter writer = new StringWriter();
    JsonStreamTargetImpl target = new JsonStreamTargetImpl(writer, true);

    target.startObject();
    target.name("alice");
    target.startArray();
    target.value("bob");
    target.endArray();
    target.endObject();

    target.close();

    Assert.assertEquals("{\"alice\":[\"bob\"]}", writer.toString());
}

```

```

@Test
public void testArray2() throws IOException {

```

```

StringWriter writer = new StringWriter();
JsonStreamTargetImpl target = new JsonStreamTargetImpl(writer, true);

target.startObject();
target.name("alice");
target.startObject();
target.name("bob");
target.startArray();
target.value("edgar");
target.value("charlie");
target.endArray();
target.endObject();
target.endObject();

target.close();

Assert.assertEquals("{\"alice\":{\"bob\":[\"edgar\",\"charlie\"]}}", writer.toString());
}

@Test
public void testArray3() throws IOException {
StringWriter writer = new StringWriter();
JsonStreamTargetImpl target = new JsonStreamTargetImpl(writer, true);

target.startObject();
target.name("alice");
target.startObject();
target.name("edgar");
target.startArray();
target.value("bob");
target.endArray();
target.name("charlie");
target.startArray();
target.value("bob");
target.endArray();
target.endObject();
target.endObject();

target.close();

Assert.assertEquals("{\"alice\":{\"edgar\":[\"bob\"],\"charlie\":[\"bob\"]}}", writer.toString());
}

@Test
public void testString() throws IOException {
StringWriter writer = new StringWriter();
JsonStreamTargetImpl target = new JsonStreamTargetImpl(writer, true);

```

```

target.startArray();
target.value("");
target.value("abc");
target.value("\b\f\n\r\t");
target.value("\");
target.value("\\");
target.value("\u001F");
target.endArray();

target.close();

Assert.assertEquals("[\"\", \"abc\", \"\\b\\f\\n\\r\\t\", \"\\\", \"\\\\\", \"\\u001F\"]", writer.toString());
}

@Test
public void testSimpleValue() throws IOException {
    StringWriter writer = new StringWriter();
    JsonStreamTargetImpl target = new JsonStreamTargetImpl(writer, true);

    target.startArray();
    target.value("abc");
    target.value(1234);
    target.value(true);
    target.endArray();

    target.close();

    Assert.assertEquals("[\"abc\", 1234, true]", writer.toString());
}
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 */
package de.odysseus.staxon.json.stream.impl;

import java.io.IOException;

```



```

import java.io.StringReader;
import java.io.StringWriter;
import java.math.BigDecimal;
import java.math.BigInteger;

import junit.framework.Assert;

import org.junit.Rule;
import org.junit.Test;
import org.junit.rules.ExpectedException;

import de.odysseus.staxon.json.stream.JsonStreamSource;
import de.odysseus.staxon.json.stream.JsonStreamToken;
import de.odysseus.staxon.json.stream.util.StreamSourceDelegate;

public class JsonStreamSourceImplTest {
    @Rule
    public final ExpectedException expectedException = ExpectedException.none();

    void readInvalid(String input, Class<? extends Exception> exceptionClass, String exceptiondMessage) throws
    IOException {
        expectedException.expect(exceptionClass);
        expectedException.expectMessage(exceptiondMessage);

        StreamSourceDelegate source =
            new StreamSourceDelegate(new JsonStreamSourceImpl(new Yylex(new StringReader(input)), true));
        try {
            source.copy(new JsonStreamTargetImpl(new StringWriter(), true));
        } finally {
            source.close();
        }
    }

    @Test
    public void testStringValue() throws IOException {
        StringReader reader = new StringReader("\"bob\"");
        JsonStreamSourceImpl source = new JsonStreamSourceImpl(new Yylex(reader), true);

        Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
        Assert.assertEquals("bob", source.value().text);

        Assert.assertEquals(JsonStreamToken.NONE, source.peek());
        source.close();
    }

    @Test
    public void testObjectValue() throws IOException {
        StringReader reader = new StringReader("{\"alice\":\"bob\"}");

```

```
JsonStreamSourceImpl source = new JsonStreamSourceImpl(new Yylex(reader), true);
```

```
Assert.assertEquals(JsonStreamToken.START_OBJECT, source.peek());  
source.startObject();
```

```
Assert.assertEquals(JsonStreamToken.NAME, source.peek());  
Assert.assertEquals("alice", source.name());
```

```
Assert.assertEquals(JsonStreamToken.VALUE, source.peek());  
Assert.assertEquals("bob", source.value().text());
```

```
Assert.assertEquals(JsonStreamToken.END_OBJECT, source.peek());  
source.endObject();
```

```
Assert.assertEquals(JsonStreamToken.NONE, source.peek());  
source.close();  
}
```

```
@Test
```

```
public void testArrayValue() throws IOException {  
    StringReader reader = new StringReader("[\"bob\"]");  
    JsonStreamSourceImpl source = new JsonStreamSourceImpl(new Yylex(reader), true);
```

```
Assert.assertEquals(JsonStreamToken.START_ARRAY, source.peek());  
source.startArray();
```

```
Assert.assertEquals(JsonStreamToken.VALUE, source.peek());  
Assert.assertEquals("bob", source.value().text());
```

```
Assert.assertEquals(JsonStreamToken.END_ARRAY, source.peek());  
source.endArray();
```

```
Assert.assertEquals(JsonStreamToken.NONE, source.peek());  
source.close();  
}
```

```
@Test
```

```
public void testArray1() throws IOException {  
    StringReader reader = new StringReader("{\"alice\": [\"bob\"]}");  
    JsonStreamSourceImpl source = new JsonStreamSourceImpl(new Yylex(reader), true);
```

```
Assert.assertEquals(JsonStreamToken.START_OBJECT, source.peek());  
source.startObject();
```

```
Assert.assertEquals(JsonStreamToken.NAME, source.peek());  
Assert.assertEquals("alice", source.name());
```

```
Assert.assertEquals(JsonStreamToken.START_ARRAY, source.peek());
```

```

source.startArray();

Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
Assert.assertEquals("bob", source.value().text);

Assert.assertEquals(JsonStreamToken.END_ARRAY, source.peek());
source.endArray();

Assert.assertEquals(JsonStreamToken.END_OBJECT, source.peek());
source.endObject();

Assert.assertEquals(JsonStreamToken.NONE, source.peek());
source.close();
}

@Test
public void testArray2() throws IOException {
    StringReader reader = new StringReader("{\"alice\":{\"bob\":[\"edgar\",\"charlie\"]}}");
    JsonStreamSourceImpl source = new JsonStreamSourceImpl(new Yylex(reader), true);

    Assert.assertEquals(JsonStreamToken.START_OBJECT, source.peek());
    source.startObject();

    Assert.assertEquals(JsonStreamToken.NAME, source.peek());
    Assert.assertEquals("alice", source.name());

    Assert.assertEquals(JsonStreamToken.START_OBJECT, source.peek());
    source.startObject();

    Assert.assertEquals(JsonStreamToken.NAME, source.peek());
    Assert.assertEquals("bob", source.name());

    Assert.assertEquals(JsonStreamToken.START_ARRAY, source.peek());
    source.startArray();

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    Assert.assertEquals("edgar", source.value().text);

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    Assert.assertEquals("charlie", source.value().text);

    Assert.assertEquals(JsonStreamToken.END_ARRAY, source.peek());
    source.endArray();

    Assert.assertEquals(JsonStreamToken.END_OBJECT, source.peek());
    source.endObject();

    Assert.assertEquals(JsonStreamToken.END_OBJECT, source.peek());

```

```

source.endObject();

Assert.assertEquals(JsonStreamToken.NONE, source.peek());
source.close();
}

@Test
public void testArray3() throws IOException {
    StringReader reader = new StringReader("{\"alice\":{\"edgar\":[\"bob\"],\"charlie\":[\"bob\"]}}");
    JsonStreamSourceImpl source = new JsonStreamSourceImpl(new Yylex(reader), true);

    Assert.assertEquals(JsonStreamToken.START_OBJECT, source.peek());
    source.startObject();

    Assert.assertEquals(JsonStreamToken.NAME, source.peek());
    Assert.assertEquals("alice", source.name());

    Assert.assertEquals(JsonStreamToken.START_OBJECT, source.peek());
    source.startObject();

    Assert.assertEquals(JsonStreamToken.NAME, source.peek());
    Assert.assertEquals("edgar", source.name());

    Assert.assertEquals(JsonStreamToken.START_ARRAY, source.peek());
    source.startArray();

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    Assert.assertEquals("bob", source.value().text);

    Assert.assertEquals(JsonStreamToken.END_ARRAY, source.peek());
    source.endArray();

    Assert.assertEquals(JsonStreamToken.NAME, source.peek());
    Assert.assertEquals("charlie", source.name());

    Assert.assertEquals(JsonStreamToken.START_ARRAY, source.peek());
    source.startArray();

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    Assert.assertEquals("bob", source.value().text);

    Assert.assertEquals(JsonStreamToken.END_ARRAY, source.peek());
    source.endArray();

    Assert.assertEquals(JsonStreamToken.END_OBJECT, source.peek());
    source.endObject();

    Assert.assertEquals(JsonStreamToken.END_OBJECT, source.peek());

```

```

source.endObject();

Assert.assertEquals(JsonStreamToken.NONE, source.peek());
source.close();
}

@Test
public void testString() throws IOException {
    StringReader reader = new StringReader("[\"\", \"abc\", \"\\b\\f\\n\\r\\t\", \"\\\"\", \"\\\\\\\\\", \"\\u001F\"]");
    JsonStreamSourceImpl source = new JsonStreamSourceImpl(new Yylex(reader), true);

    Assert.assertEquals(JsonStreamToken.START_ARRAY, source.peek());
    source.startArray();

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    Assert.assertEquals("", source.value().text);

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    Assert.assertEquals("abc", source.value().text);

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    Assert.assertEquals("\\b\\f\\n\\r\\t", source.value().text);

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    Assert.assertEquals("\"\"", source.value().text);

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    Assert.assertEquals("\\", source.value().text);

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    Assert.assertEquals("\\u001F", source.value().text);

    Assert.assertEquals(JsonStreamToken.END_ARRAY, source.peek());
    source.endArray();

    Assert.assertEquals(JsonStreamToken.NONE, source.peek());
    source.close();
}

@Test
public void testLiteralValues() throws IOException {
    StringReader reader = new StringReader("[true,false,null]");
    JsonStreamSourceImpl source = new JsonStreamSourceImpl(new Yylex(reader), true);
    JsonStreamSource.Value value = null;

    Assert.assertEquals(JsonStreamToken.START_ARRAY, source.peek());
    source.startArray();

```

```

Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
value = source.value();
Assert.assertEquals("true", value.text);
Assert.assertEquals(Boolean.TRUE, value.data);

Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
value = source.value();
Assert.assertEquals("false", value.text);
Assert.assertEquals(Boolean.FALSE, value.data);

Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
value = source.value();
Assert.assertNull(value.text);
Assert.assertNull(value.data);

Assert.assertEquals(JsonStreamToken.END_ARRAY, source.peek());
source.endArray();

Assert.assertEquals(JsonStreamToken.NONE, source.peek());
source.close();
}

@Test
public void testNumberValues() throws IOException {
    StringReader reader = new StringReader("[123,12e3,12E3,12.3,1.2e3,1.2E3]");
    JsonStreamSourceImpl source = new JsonStreamSourceImpl(new Yylex(reader), true);
    JsonStreamSource.Value value = null;

    Assert.assertEquals(JsonStreamToken.START_ARRAY, source.peek());
    source.startArray();

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    value = source.value();
    Assert.assertEquals("123", value.text);
    Assert.assertEquals(new BigInteger("123"), value.data);

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    value = source.value();
    Assert.assertEquals("12e3", value.text);
    Assert.assertEquals(new BigDecimal("12e3"), value.data);

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    value = source.value();
    Assert.assertEquals("12E3", value.text);
    Assert.assertEquals(new BigDecimal("12E3"), value.data);

    Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
    value = source.value();

```

```

Assert.assertEquals("12.3", value.text);
Assert.assertEquals(new BigDecimal("12.3"), value.data);

Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
value = source.value();
Assert.assertEquals("1.2e3", value.text);
Assert.assertEquals(new BigDecimal("1.2e3"), value.data);

Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
value = source.value();
Assert.assertEquals("1.2E3", value.text);
Assert.assertEquals(new BigDecimal("1.2E3"), value.data);

Assert.assertEquals(JsonStreamToken.END_ARRAY, source.peek());
source.endArray();

Assert.assertEquals(JsonStreamToken.NONE, source.peek());
source.close();
}

```

@Test

```

public void testWhitespace() throws IOException {
    StringReader reader = new StringReader("{\r \"alice\" : \"bob\"\r\n}");
    JsonStreamSourceImpl source = new JsonStreamSourceImpl(new Yylex(reader), true);

```

```

Assert.assertEquals(JsonStreamToken.START_OBJECT, source.peek());
source.startObject();

```

```

Assert.assertEquals(JsonStreamToken.NAME, source.peek());
Assert.assertEquals("alice", source.name());

```

```

Assert.assertEquals(JsonStreamToken.VALUE, source.peek());
Assert.assertEquals("bob", source.value().text);

```

```

Assert.assertEquals(JsonStreamToken.END_OBJECT, source.peek());
source.endObject();

```

```

Assert.assertEquals(JsonStreamToken.NONE, source.peek());
source.close();
}

```

@Test

```

public void testLocation() throws IOException {
    String input = "{\n\t\"alice\" : {\n\t\t\"bob\" : [ \"charlie\" ],\n\t\t\"edgar\" : \"david\"\n\t}\n}";
    // System.out.println(input);
    JsonStreamSourceImpl source = new JsonStreamSourceImpl(new Yylex(new StringReader(input)), true);

```

```

Assert.assertEquals(1, source.getLineNumber());

```

```

Assert.assertEquals(1, source.getColumnNumber());
Assert.assertEquals(0, source.getCharacterOffset());
source.startObject();
Assert.assertEquals(1, source.getLineNumber());
Assert.assertEquals(1, source.getColumnNumber());
Assert.assertEquals(0, source.getCharacterOffset());
source.name();
Assert.assertEquals(2, source.getLineNumber());
Assert.assertEquals(8, source.getColumnNumber());
Assert.assertEquals(9, source.getCharacterOffset());
source.startObject();
Assert.assertEquals(2, source.getLineNumber());
Assert.assertEquals(12, source.getColumnNumber());
Assert.assertEquals(13, source.getCharacterOffset());
source.name();
Assert.assertEquals(3, source.getLineNumber());
Assert.assertEquals(7, source.getColumnNumber());
Assert.assertEquals(21, source.getCharacterOffset());
source.startArray();
Assert.assertEquals(3, source.getLineNumber());
Assert.assertEquals(11, source.getColumnNumber());
Assert.assertEquals(25, source.getCharacterOffset());
source.value();
Assert.assertEquals(3, source.getLineNumber());
Assert.assertEquals(21, source.getColumnNumber());
Assert.assertEquals(35, source.getCharacterOffset());
source.endArray();
Assert.assertEquals(3, source.getLineNumber());
Assert.assertEquals(23, source.getColumnNumber());
Assert.assertEquals(37, source.getCharacterOffset());
source.name();
Assert.assertEquals(4, source.getLineNumber());
Assert.assertEquals(9, source.getColumnNumber());
Assert.assertEquals(48, source.getCharacterOffset());
source.value();
Assert.assertEquals(4, source.getLineNumber());
Assert.assertEquals(19, source.getColumnNumber());
Assert.assertEquals(58, source.getCharacterOffset());
source.endObject();
Assert.assertEquals(5, source.getLineNumber());
Assert.assertEquals(2, source.getColumnNumber());
Assert.assertEquals(61, source.getCharacterOffset());
source.endObject();
Assert.assertEquals(6, source.getLineNumber());
Assert.assertEquals(1, source.getColumnNumber());
Assert.assertEquals(63, source.getCharacterOffset());
source.close();
}

```



```
@Test
public void testInvalid_UnclosedArray() throws IOException {
    readInvalid("{\"alice\":[\"bob\"]}", IOException.class, "Unclosed array");
}
```

```
@Test
public void testInvalid_UnclosedArray2() throws IOException {
    readInvalid("[\"edgar\", \"david\"]", IOException.class, "Unclosed array");
}
```

```
@Test
public void testInvalid_NotInAnArray() throws IOException {
    readInvalid("{\"alice\":\"bob\"}", IOException.class, "Not in an array");
}
```

```
@Test
public void testInvalid_NotInAnArray2() throws IOException {
    readInvalid("{\"alice\":[\"bob\"]]", IOException.class, "Not in an array");
}
```

```
@Test
public void testInvalid_NotInAnObject() throws IOException {
    readInvalid("{\"alice\":\"bob\"}", IOException.class, "Not in an object");
}
```

```
@Test
public void testInvalid_UnexpectedSymbol() throws IOException {
    readInvalid("{\"alice\":{\"bob\":\"charlie\"}}", IOException.class, "Unexpected symbol: COLON");
}
```

```
@Test
public void testInvalid_UnexpectedSymbol2() throws IOException {
    readInvalid("[\"alice\": \"bob\"]", IOException.class, "Unexpected symbol: COLON");
}
```

```
@Test
public void testInvalid_PrematureEOF() throws IOException {
    readInvalid("[\"edgar\", \"david\"]", IOException.class, "Premature EOF");
}
}
```

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*/
```

```
package de.odysseus.staxon.event;
```

```
import java.io.StringReader;
```

```
import java.io.StringWriter;
```

```
import javax.xml.stream.XMLStreamReader;
```

```
import javax.xml.stream.XMLStreamWriter;
```

```
import javax.xml.stream.XMLStreamException;
```

```
import junit.framework.Assert;
```

```
import org.junit.Test;
```

```
import de.odysseus.staxon.xml.SimpleXMLInputFactory;
```

```
import de.odysseus.staxon.xml.SimpleXMLOutputFactory;
```

```
public class SimpleXMLEventWriterTest {
```

```
    private XMLStreamReader createXmlEventReader(String xml) throws XMLStreamException {
        return new SimpleXMLInputFactory().createXMLStreamReader(new StringReader(xml));
    }
```

```
    private XMLStreamWriter createXmlEventWriter(StringWriter stringWriter) throws XMLStreamException {
        return new SimpleXMLOutputFactory().createXMLStreamWriter(stringWriter);
    }
```

```
@Test
```

```
public void testStartEndDocument() throws XMLStreamException {
    StringWriter stringWriter = new StringWriter();
    String xml = "<?xml version=\"1.0\"?>";
    createXmlEventWriter(stringWriter).add(createXmlEventReader(xml));
    Assert.assertEquals(xml, stringWriter.toString());
}
```

```
@Test
```

```
public void testStartEndElement() throws XMLStreamException {
    StringWriter stringWriter = new StringWriter();
    createXmlEventWriter(stringWriter).add(createXmlEventReader("<alice/>"));
    Assert.assertEquals("<alice></alice>", stringWriter.toString());
}
```

```
    stringWriter = new StringWriter();
```

```

createXmlEventWriter(stringWriter).add(createXmlEventReader("<alice></alice>"));
Assert.assertEquals("<alice></alice>", stringWriter.toString());
}

```

@Test

```

public void testCharactersCDATA() throws XMLStreamException {
    StringWriter stringWriter = new StringWriter();
    createXmlEventWriter(stringWriter).add(createXmlEventReader("<alice>bob</alice>"));
    Assert.assertEquals("<alice>bob</alice>", stringWriter.toString());

    stringWriter = new StringWriter();
    createXmlEventWriter(stringWriter).add(createXmlEventReader("<alice><![CDATA[bob]]></alice>"));
    Assert.assertEquals("<alice><![CDATA[bob]]></alice>", stringWriter.toString());
}

```

@Test

```

public void testAttributeNamespace() throws XMLStreamException {
    StringWriter stringWriter = new StringWriter();
    createXmlEventWriter(stringWriter).add(createXmlEventReader("<alice xmlns='http://foo\" david='\"edgar\"/>"));
    Assert.assertEquals("<alice xmlns='http://foo\" david='\"edgar\"></alice>", stringWriter.toString());
}

```

@Test

```

public void testComment() throws XMLStreamException {
    StringWriter stringWriter = new StringWriter();
    createXmlEventWriter(stringWriter).add(createXmlEventReader("<!--james-->"));
    Assert.assertEquals("<!--james-->", stringWriter.toString());
}

```

@Test

```

public void testProcessingInstruction() throws XMLStreamException {
    StringWriter stringWriter = new StringWriter();
    createXmlEventWriter(stringWriter).add(createXmlEventReader("<?joe?>"));
    Assert.assertEquals("<?joe?>", stringWriter.toString());
}
}

```

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*/

```
package de.odysseus.staxon.event;
```

```
import java.io.StringWriter;
```

```
import java.util.Arrays;
```

```
import javax.xml.namespace.QName;
```

```
import javax.xml.stream.Location;
```

```
import javax.xml.stream.XMLStreamConstants;
```

```
import javax.xml.stream.XMLStreamException;
```

```
import javax.xml.stream.events.Attribute;
```

```
import javax.xml.stream.events.Characters;
```

```
import javax.xml.stream.events.Comment;
```

```
import javax.xml.stream.events.EndDocument;
```

```
import javax.xml.stream.events.EndElement;
```

```
import javax.xml.stream.events.EntityReference;
```

```
import javax.xml.stream.events.Namespace;
```

```
import javax.xml.stream.events.ProcessingInstruction;
```

```
import javax.xml.stream.events.StartDocument;
```

```
import javax.xml.stream.events.StartElement;
```

```
import javax.xml.stream.events.XMLEvent;
```

```
import junit.framework.Assert;
```

```
import org.junit.Test;
```

```
public class SimpleXMLEventFactoryTest {
```

```
    static final Location LOCATION = new Location() {
```

```
        @Override
```

```
        public String getSystemId() {
```

```
            return null;
```

```
        }
```

```
        @Override
```

```
        public String getPublicId() {
```

```
            return null;
```

```
        }
```

```
        @Override
```

```
        public int getLineNumber() {
```

```
            return 0;
```

```
        }
```

```
        @Override
```

```
        public int getColumnNumber() {
```

```
            return 0;
```

```
        }
```

```
        @Override
```

```
        public int getCharacterOffset() {
```

```
    return 0;
  }
};
```

```
SimpleXMLEventFactory factory = new SimpleXMLEventFactory(LOCATION);
```

```
private void verify(XMLEvent event, int expectedEventType, String expectedWriteAsEncodedUnicode) throws XMLStreamException {
    Assert.assertEquals(expectedEventType, event.getEventType());
    Assert.assertNull(event.getSchemaType());
    Assert.assertSame(LOCATION, event.getLocation());
    StringWriter stringWriter = new StringWriter();
    event.writeAsEncodedUnicode(stringWriter);
    Assert.assertEquals(expectedWriteAsEncodedUnicode, stringWriter.toString());
}
```

```
@Test
```

```
public void testCreateAttribute_Prefix_NamespaceURI_LocalName_Value() throws XMLStreamException {
    Attribute event = factory.createAttribute("foo", "http://foo", "bar", "foobar");
    verify(event, XMLStreamConstants.ATTRIBUTE, "foo:bar=\"foobar\"");
}
```

```
@Test
```

```
public void testCreateAttribute_LocalName_Value() throws XMLStreamException {
    Attribute event = factory.createAttribute("foo", "bar");
    verify(event, XMLStreamConstants.ATTRIBUTE, "foo=\"bar\"");
}
```

```
@Test
```

```
public void testCreateAttribute_Name_Value() throws XMLStreamException {
    Attribute event = factory.createAttribute(new QName("http://foo", "bar", "foo"), "foobar");
    verify(event, XMLStreamConstants.ATTRIBUTE, "foo:bar=\"foobar\"");
}
```

```
@Test
```

```
public void testCreateNamespace_NamespaceURI() throws XMLStreamException {
    Namespace event = factory.createNamespace("http://foo");
    verify(event, XMLStreamConstants.NAMESPACE, "xmlns=\"http://foo\"");
}
```

```
@Test
```

```
public void testCreateNamespace_Prefix_NamespaceURI() throws XMLStreamException {
    Namespace event = factory.createNamespace("foo", "http://foo");
    verify(event, XMLStreamConstants.NAMESPACE, "xmlns:foo=\"http://foo\"");
}
```

```
@Test
```

```
public void testCreateStartElement_Name_Attributes_Namespaces() throws XMLStreamException {
```

```

    Namespace namespace = factory.createNamespace("foo", "http://foo");
    Attribute attribute = factory.createAttribute("foo", "bar");
    StartElement event = factory.createStartElement(new QName("http://foo", "bar", "foo"),
Arrays.asList(attribute).iterator(), Arrays.asList(namespace).iterator());
    verify(event, XMLStreamConstants.START_ELEMENT, "<foo:bar xmlns:foo=\"http://foo\" foo=\"bar\">");
}

@Test
public void testCreateStartElement_Prefix_NamespaceURI_LocalName() throws XMLStreamException {
    StartElement event = factory.createStartElement("foo", "http://foo", "bar");
    verify(event, XMLStreamConstants.START_ELEMENT, "<foo:bar>");
}

@Test
public void testCreateStartElement_Prefix_NamespaceURI_LocalName_Attributes_Namespaces() throws
XMLStreamException {
    Namespace namespace = factory.createNamespace("foo", "http://foo");
    Attribute attribute = factory.createAttribute("foo", "bar");
    StartElement event = factory.createStartElement("foo", "http://foo", "bar", Arrays.asList(attribute).iterator(),
Arrays.asList(namespace).iterator());
    verify(event, XMLStreamConstants.START_ELEMENT, "<foo:bar xmlns:foo=\"http://foo\" foo=\"bar\">");
}

@Test
public void testCreateStartElement_Prefix_NamespaceURI_LocalName_Attributes_Namespaces_Context() throws
XMLStreamException {
    Attribute attribute = factory.createAttribute("foo", "bar");
    StartElement event = factory.createStartElement("foo", "http://foo", "bar", Arrays.asList(attribute).iterator(), null);
    verify(event, XMLStreamConstants.START_ELEMENT, "<foo:bar foo=\"bar\">");
}

@Test
public void testCreateEndElement_Name_Namespaces() throws XMLStreamException {
    Namespace namespace = factory.createNamespace("foo", "http://foo");
    EndElement event = factory.createEndElement(new QName("http://foo", "bar", "foo"),
Arrays.asList(namespace).iterator());
    verify(event, XMLStreamConstants.END_ELEMENT, "</foo:bar>");
    Assert.assertEquals(namespace, event.getNamespaces().next());
}

@Test
public void testCreateEndElement_Prefix_NamespaceURI_LocalName() throws XMLStreamException {
    EndElement event = factory.createEndElement("foo", "http://foo", "bar");
    verify(event, XMLStreamConstants.END_ELEMENT, "</foo:bar>");
}

@Test
public void testCreateEndElement_Prefix_NamespaceURI_LocalName_Namespaces() throws

```

```

XMLStreamException {
    Namespace namespace = factory.createNamespace("foo", "http://foo");
    EndElement event = factory.createEndElement("foo", "http://foo", "bar", Arrays.asList(namespace).iterator());
    verify(event, XMLStreamConstants.END_ELEMENT, "</foo:bar>");
    Assert.assertEquals(namespace, event.getNamespaces().next());
}

@Test
public void testCreateCharacters() throws XMLStreamException {
    Characters event = factory.createCharacters("foobar");
    verify(event, XMLStreamConstants.CHARACTERS, "foobar");
}

@Test
public void testCreateCDATA() throws XMLStreamException {
    Characters event = factory.createCDATA("foobar");
    verify(event, XMLStreamConstants.CDATA, "<![CDATA[foobar]]>");
}

@Test
public void testCreateSpace() throws XMLStreamException {
    Characters event = factory.createSpace(" ");
    verify(event, XMLStreamConstants.CHARACTERS, " ");
    Assert.assertTrue(event.isWhiteSpace());
    Assert.assertFalse(event.isIgnorableWhiteSpace());
}

@Test
public void testCreateIgnorableSpace() throws XMLStreamException {
    Characters event = factory.createIgnorableSpace(" ");
    verify(event, XMLStreamConstants.SPACE, "");
    Assert.assertTrue(event.isWhiteSpace());
    Assert.assertTrue(event.isIgnorableWhiteSpace());
}

@Test
public void testCreateStartDocument() throws XMLStreamException {
    StartDocument event = factory.createStartDocument();
    verify(event, XMLStreamConstants.START_DOCUMENT, "<?xml version=\"1.0\"?>");
}

@Test
public void testCreateStartDocument_Encoding_Version_Standalone() throws XMLStreamException {
    StartDocument event = factory.createStartDocument("UTF-8", "1.1", true);
    verify(event, XMLStreamConstants.START_DOCUMENT, "<?xml version=\"1.1\" encoding=\"UTF-8\"
standalone=\"yes\"?>");
}

```

```
@Test
public void testCreateStartDocument_Encoding_Version() throws XMLStreamException {
    StartDocument event = factory.createStartDocument("UTF-8", "1.1");
    verify(event, XMLStreamConstants.START_DOCUMENT, "<?xml version=\"1.1\" encoding=\"UTF-8\"?>");
}
```

```
@Test
public void testCreateStartDocument_Encoding() throws XMLStreamException {
    StartDocument event = factory.createStartDocument("UTF-8");
    verify(event, XMLStreamConstants.START_DOCUMENT, "<?xml version=\"1.0\" encoding=\"UTF-8\"?>");
}
```

```
@Test
public void testCreateEndDocument() throws XMLStreamException {
    EndDocument event = factory.createEndDocument();
    verify(event, XMLStreamConstants.END_DOCUMENT, "");
}
```

```
@Test
public void testCreateEntityReference() throws XMLStreamException {
    EntityReference event = factory.createEntityReference("foo", null);
    verify(event, XMLStreamConstants.ENTITY_REFERENCE, "&foo;");
}
```

```
@Test
public void testCreateComment() throws XMLStreamException {
    Comment event = factory.createComment("foo");
    verify(event, XMLStreamConstants.COMMENT, "<!--foo-->");
}
```

```
@Test
public void testCreateProcessingInstruction() throws XMLStreamException {
    ProcessingInstruction event = factory.createProcessingInstruction("foo", "bar");
    verify(event, XMLStreamConstants.PROCESSING_INSTRUCTION, "<?foo bar?>");
}
```

```
@Test(expected = UnsupportedOperationException.class)
public void testCreateDTD() {
    factory.createDTD("foo");
}
}
```

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* limitations under the License.
*/
```

```
package de.odysseus.staxon.event;
```

```
import java.io.StringReader;
import java.util.Iterator;
```

```
import javax.xml.stream.XMLStreamReader;
import javax.xml.stream.XMLStreamConstants;
import javax.xml.stream.XMLStreamException;
import javax.xml.stream.events.Attribute;
import javax.xml.stream.events.Namespace;
import javax.xml.stream.events.XMLEvent;
```

```
import junit.framework.Assert;
```

```
import org.junit.Test;
```

```
import de.odysseus.staxon.xml.SimpleXMLInputFactory;
```

```
public class SimpleXMLStreamReaderTest {
    private XMLStreamReader createXmlEventReader(String xml) throws XMLStreamException {
        return new SimpleXMLInputFactory().createXMLStreamReader(new StringReader(xml));
    }

    @Test
    public void testStartEndDocument() throws XMLStreamException {
        XMLStreamReader reader = createXmlEventReader("<? xml version='1.0' ?>");
        Assert.assertEquals(XMLStreamConstants.START_DOCUMENT, reader.nextEvent().getEventType());
        Assert.assertEquals(XMLStreamConstants.END_DOCUMENT, reader.nextEvent().getEventType());
    }

    @Test
    public void testStartEndElement() throws XMLStreamException {
        XMLStreamReader reader = createXmlEventReader("<alice/>");
        Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextEvent().getEventType());
        Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextEvent().getEventType());

        reader = createXmlEventReader("<alice></alice>");
        Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextEvent().getEventType());
        Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextEvent().getEventType());
    }
}
```

```

@Test
public void testCharactersCDATA() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<alice>bob</alice>");
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextEvent().getEventType());
    Assert.assertEquals(XMLStreamConstants.CHARACTERS, reader.nextEvent().getEventType());
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextEvent().getEventType());

    reader = createXmlEventReader("<alice><![CDATA[\"bob\"]></alice>");
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextEvent().getEventType());
    Assert.assertEquals(XMLStreamConstants.CDATA, reader.nextEvent().getEventType());
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextEvent().getEventType());
}

```

```

@Test
public void testAttributeNamespace() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<alice david=\\\"edgar\\\" xmlns=\\\"http://foo\\\"/>");
    XMLEvent event = reader.nextEvent();
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, event.getEventType());
    Iterator<?> attributes = event.asStartElement().getAttributes();
    Assert.assertEquals(XMLStreamConstants.ATTRIBUTE, ((Attribute)attributes.next()).getEventType());
    Assert.assertFalse(attributes.hasNext());
    Iterator<?> namespaces = event.asStartElement().getNamespaces();
    Assert.assertEquals(XMLStreamConstants.NAMESPACE, ((Namespace)namespaces.next()).getEventType());
    Assert.assertFalse(namespaces.hasNext());
}

```

```

@Test
public void testComment() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<!--james-->");
    Assert.assertEquals(XMLStreamConstants.COMMENT, reader.nextEvent().getEventType());
}

```

```

@Test
public void testProcessingInstruction() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<?joe?>");
    Assert.assertEquals(XMLStreamConstants.PROCESSING_INSTRUCTION, reader.nextEvent().getEventType());
}

```

```

@Test
public void testPeek() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<?xml version=\\\"1.0\\\"?><alice david=\\\"edgar\\\">bob</alice>");
    while (reader.hasNext()) {
        Assert.assertEquals(reader.peek(), reader.nextEvent());
    }
}

```

```

@Test

```

```

public void testGetElementText() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<alice david=\"edgar\">bob</alice>");
    reader.next();
    Assert.assertEquals("bob", reader.getElementText());

    reader = createXmlEventReader("<alice david=\"edgar\">bob</alice>");
    reader.next();
    reader.peek();
    Assert.assertEquals("bob", reader.getElementText());
}

@Test
public void testNextTag() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<?xml version=\"1.0\"?><alice
david=\"edgar\"><edgar/></alice>");
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextTag().getEventType());
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextTag().getEventType());
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextTag().getEventType());
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextTag().getEventType());

    reader = createXmlEventReader("<?xml version=\"1.0\"?><alice david=\"edgar\"><edgar/></alice>");
    reader.peek();
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextTag().getEventType());
    reader.peek();
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextTag().getEventType());
    reader.peek();
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextTag().getEventType());
    reader.peek();
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextTag().getEventType());
}
}
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 * limitations under the License.
 */
package de.odysseus.staxon.event;

```

```

import java.io.StringReader;
import java.io.StringWriter;
import java.util.Iterator;

import javax.xml.XMLConstants;
import javax.xml.namespace.QName;
import javax.xml.stream.XMLStreamConstants;
import javax.xml.stream.XMLStreamException;
import javax.xml.stream.XMLStreamReader;
import javax.xml.stream.events.Attribute;
import javax.xml.stream.events.Characters;
import javax.xml.stream.events.Comment;
import javax.xml.stream.events.EndDocument;
import javax.xml.stream.events.EndElement;
import javax.xml.stream.events.Namespace;
import javax.xml.stream.events.ProcessingInstruction;
import javax.xml.stream.events.StartDocument;
import javax.xml.stream.events.StartElement;
import javax.xml.stream.events.XMLEvent;

import junit.framework.Assert;

import org.junit.Test;

import de.odysseus.staxon.xml.SimpleXMLInputFactory;

public class SimpleXMLEventAllocatorTest {
    private SimpleXMLEventAllocator eventAllocator = new SimpleXMLEventAllocator();

    private XMLStreamReader createXmlStreamReader(String xml) throws XMLStreamException {
        return new SimpleXMLInputFactory().createXMLStreamReader(new StringReader(xml));
    }

    private void verify(XMLEvent event, int expectedEventType, String expectedWriteAsEncodedUnicode) throws
XMLStreamException {
        Assert.assertEquals(expectedEventType, event.getEventType());
        Assert.assertNull(event.getSchemaType());
        Assert.assertNotNull(event.getLocation());
        StringWriter stringWriter = new StringWriter();
        event.writeAsEncodedUnicode(stringWriter);
        Assert.assertEquals(expectedWriteAsEncodedUnicode, stringWriter.toString());
    }

    @Test
    public void testStartEndDocument() throws XMLStreamException {
        XMLStreamReader reader = createXmlStreamReader("<? xml ?>");
        StartDocument startDocument = (StartDocument)eventAllocator.allocate(reader);
        verify(startDocument, XMLStreamConstants.START_DOCUMENT, "<?xml version='1.0'?>");
    }
}

```

```

Assert.assertEquals("UTF-8", startDocument.getCharacterEncodingScheme());
Assert.assertFalse(startDocument.encodingSet());
Assert.assertEquals("1.0", startDocument.getVersion());
Assert.assertFalse(startDocument.isStandalone());
Assert.assertFalse(startDocument.standaloneSet());
reader.next();
verify((EndDocument)eventAllocator.allocate(reader), XMLStreamConstants.END_DOCUMENT, "");

```

```

reader = createXmlStreamReader("<? xml version='1.1' ?>");
startDocument = (StartDocument)eventAllocator.allocate(reader);
Assert.assertEquals("1.1", startDocument.getVersion());

```

```

reader = createXmlStreamReader("<? xml encoding='UTF-16' ?>");
startDocument = (StartDocument)eventAllocator.allocate(reader);
Assert.assertEquals("UTF-16", startDocument.getCharacterEncodingScheme());
Assert.assertTrue(startDocument.encodingSet());
}

```

@Test

```

public void testStartEndElement() throws XMLStreamException {
XMLStreamReader reader = createXmlStreamReader("<alice/>");
StartElement startElement = eventAllocator.allocate(reader).asStartElement();
verify(startElement, XMLStreamConstants.START_ELEMENT, "<alice>");
Assert.assertEquals(new QName("alice"), startElement.getName());
Assert.assertNotNull(startElement.getNamespaceContext());
Assert.assertFalse(startElement.getAttributes().hasNext());
Assert.assertFalse(startElement.getNamespaces().hasNext());
Assert.assertNull(startElement.getNamespaceURI("foo"));
reader.next();
EndElement endElement = eventAllocator.allocate(reader).asEndElement();
verify(endElement, XMLStreamConstants.END_ELEMENT, "</alice>");
Assert.assertEquals(new QName("alice"), endElement.getName());
Assert.assertFalse(endElement.getNamespaces().hasNext());
}

```

@Test

```

public void testCharactersCDATA() throws XMLStreamException {
XMLStreamReader reader = createXmlStreamReader("<alice>bob</alice>");
reader.next();
Characters characters = eventAllocator.allocate(reader).asCharacters();
verify(characters, XMLStreamConstants.CHARACTERS, "bob");
Assert.assertEquals("bob", characters.getData());
Assert.assertFalse(characters.isCDATA());
Assert.assertFalse(characters.isWhiteSpace());
Assert.assertFalse(characters.isIgnorableWhiteSpace());

reader = createXmlStreamReader("<alice><![CDATA[bob]]></alice>");
reader.next();

```

```

characters = eventAllocator.allocate(reader).asCharacters();
verify(characters, XMLStreamConstants.CDATA, "<![CDATA[bob]]>");
Assert.assertEquals("bob", characters.getData());
Assert.assertTrue(characters.isCData());

reader = createXmlStreamReader("<alice><![CDATA[ ]]></alice>");
reader.next();
characters = eventAllocator.allocate(reader).asCharacters();
verify(characters, XMLStreamConstants.CDATA, "<![CDATA[ ]]>");
Assert.assertEquals(" ", characters.getData());
Assert.assertTrue(characters.isWhiteSpace());
Assert.assertFalse(characters.isIgnorableWhiteSpace());
}

@Test
public void testAttributeNamespace() throws XMLStreamException {
    XMLStreamReader reader = createXmlStreamReader("<alice david=\"edgar\" xmlns=\"http://foo\"/>");
    StartElement startElement = eventAllocator.allocate(reader).asStartElement();
    verify(startElement, XMLStreamConstants.START_ELEMENT, "<alice xmlns=\"http://foo\" david=\"edgar\"/>");

    Iterator<?> attributes = startElement.getAttributes();
    Assert.assertTrue(attributes.hasNext());
    Attribute attribute = (Attribute)attributes.next();
    verify(attribute, XMLStreamConstants.ATTRIBUTE, "david=\"edgar\"");
    Assert.assertEquals(new QName("david"), attribute.getName());
    Assert.assertEquals("edgar", attribute.getValue());
    Assert.assertFalse(attributes.hasNext());

    Iterator<?> namespaces = startElement.getNamespaces();
    Assert.assertTrue(namespaces.hasNext());
    Namespace namespace = (Namespace)namespaces.next();
    verify(namespace, XMLStreamConstants.NAMESPACE, "xmlns=\"http://foo\"");
    Assert.assertEquals(new QName(XMLConstants.XMLNS_ATTRIBUTE_NS_URI, "xmlns"),
namespace.getName());
    Assert.assertEquals("http://foo", namespace.getValue());
    Assert.assertEquals(XMLConstants.DEFAULT_NS_PREFIX, namespace.getPrefix());
    Assert.assertEquals("http://foo", namespace.getNamespaceURI());
    Assert.assertFalse(namespaces.hasNext());

    reader = createXmlStreamReader("<alice p:david=\"edgar\" xmlns:p=\"http://foo\"/>");
    startElement = eventAllocator.allocate(reader).asStartElement();
    verify(startElement, XMLStreamConstants.START_ELEMENT, "<alice xmlns:p=\"http://foo\"
p:david=\"edgar\"/>");

    attributes = startElement.getAttributes();
    Assert.assertTrue(attributes.hasNext());
    attribute = (Attribute)attributes.next();
    verify(attribute, XMLStreamConstants.ATTRIBUTE, "p:david=\"edgar\"");

```

```

Assert.assertEquals(new QName("http://foo", "david", "p"), attribute.getName());
Assert.assertEquals("edgar", attribute.getValue());
Assert.assertFalse(attributes.hasNext());

namespaces = startElement.getNamespaces();
Assert.assertTrue(namespaces.hasNext());
namespace = (Namespace) namespaces.next();
verify(namespace, XMLStreamConstants.NAMESPACE, "xmlns:p=\"http://foo\"");
Assert.assertEquals(new QName(XMLConstants.XMLNS_ATTRIBUTE_NS_URI, "p", "xmlns"),
namespace.getName());
Assert.assertEquals("http://foo", namespace.getValue());
Assert.assertEquals("p", namespace.getPrefix());
Assert.assertEquals("http://foo", namespace.getNamespaceURI());
Assert.assertFalse(namespaces.hasNext());
}

```

@Test

```

public void testComment() throws XMLStreamException {
XMLStreamReader reader = createXmlStreamReader("<!-- james -->");
Comment comment = (Comment)eventAllocator.allocate(reader);
verify(comment, XMLStreamConstants.COMMENT, "<!-- james -->");
Assert.assertEquals(" james ", comment.getText());
}

```

@Test

```

public void testProcessingInstruction() throws XMLStreamException {
XMLStreamReader reader = createXmlStreamReader("<? joe ?>");
ProcessingInstruction processingInstruction = (ProcessingInstruction)eventAllocator.allocate(reader);
verify(processingInstruction, XMLStreamConstants.PROCESSING_INSTRUCTION, "<?joe?>");
Assert.assertEquals("joe", processingInstruction.getTarget());
Assert.assertNull(processingInstruction.getData());

```

```

reader = createXmlStreamReader("<?joe jim?>");
processingInstruction = (ProcessingInstruction)eventAllocator.allocate(reader);
Assert.assertEquals("joe", processingInstruction.getTarget());
Assert.assertEquals("jim", processingInstruction.getData());
}
}

```

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*/

```
package de.odysseus.staxon.event;
```

```
import java.io.StringReader;  
import java.util.Iterator;
```

```
import javax.xml.stream.EventFilter;  
import javax.xml.stream.XMLEventReader;  
import javax.xml.stream.XMLInputFactory;  
import javax.xml.stream.XMLStreamConstants;  
import javax.xml.stream.XMLStreamException;  
import javax.xml.stream.events.Attribute;  
import javax.xml.stream.events.Namespace;  
import javax.xml.stream.events.XMLEvent;
```

```
import junit.framework.Assert;
```

```
import org.junit.Test;
```

```
import de.odysseus.staxon.xml.SimpleXMLInputFactory;
```

```
public class SimpleXMLFilteredEventReaderTest {  
    static final EventFilter ACCEPT_ALL = new EventFilter() {  
        @Override  
        public boolean accept(XMLEvent event) {  
            return true;  
        }  
    };  
};
```

```
static class TypeFilter implements EventFilter {  
    final int type;  
    public TypeFilter(int type) {  
        this.type = type;  
    }  
    @Override  
    public boolean accept(XMLEvent event) {  
        return event.getEventType() != type;  
    }  
};
```

```
private static XMLInputFactory factory = new SimpleXMLInputFactory();
```

```
private XMLEventReader createXmlEventReader(String xml, EventFilter filter) throws XMLStreamException {  
    return new SimpleXMLFilteredEventReader(factory.createXMLEventReader(new StringReader(xml)), filter);  
}
```



```
}
```

```
@Test
```

```
public void testStartEndDocument() throws XMLStreamException {  
    XMLEventReader reader = createXmlEventReader("<? xml version='1.0' ?>", ACCEPT_ALL);  
    Assert.assertEquals(XMLStreamConstants.START_DOCUMENT, reader.nextEvent().getEventType());  
    Assert.assertEquals(XMLStreamConstants.END_DOCUMENT, reader.nextEvent().getEventType());  
}
```

```
@Test
```

```
public void testStartEndElement() throws XMLStreamException {  
    XMLEventReader reader = createXmlEventReader("<alice/>", ACCEPT_ALL);  
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextEvent().getEventType());  
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextEvent().getEventType());  
  
    reader = createXmlEventReader("<alice></alice>", ACCEPT_ALL);  
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextEvent().getEventType());  
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextEvent().getEventType());  
}
```

```
@Test
```

```
public void testStartEndElement2() throws XMLStreamException {  
    XMLEventReader reader = createXmlEventReader("<alice/>", new  
TypeFilter(XMLStreamConstants.START_ELEMENT));  
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextEvent().getEventType());  
  
    reader = createXmlEventReader("<alice></alice>", new TypeFilter(XMLStreamConstants.END_ELEMENT));  
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextEvent().getEventType());  
    Assert.assertFalse(reader.hasNext());  
}
```

```
@Test
```

```
public void testCharactersCDATA() throws XMLStreamException {  
    XMLEventReader reader = createXmlEventReader("<alice>bob</alice>", ACCEPT_ALL);  
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextEvent().getEventType());  
    Assert.assertEquals(XMLStreamConstants.CHARACTERS, reader.nextEvent().getEventType());  
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextEvent().getEventType());  
  
    reader = createXmlEventReader("<alice><![CDATA[bob]]></alice>", ACCEPT_ALL);  
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextEvent().getEventType());  
    Assert.assertEquals(XMLStreamConstants.CDATA, reader.nextEvent().getEventType());  
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextEvent().getEventType());  
}
```

```
@Test
```

```
public void testCharactersCDATA2() throws XMLStreamException {  
    XMLEventReader reader = createXmlEventReader("<alice>bob</alice>", new  
TypeFilter(XMLStreamConstants.CHARACTERS));
```

```

Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextEvent().getEventType());
Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextEvent().getEventType());

reader = createXmlEventReader("<alice><![CDATA[bob]]></alice>", new
TypeFilter(XMLStreamConstants.CDATA));
Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextEvent().getEventType());
Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextEvent().getEventType());
}

@Test
public void testAttributeNamespace() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<alice david='edgar' xmlns='http://foo'/>",
ACCEPT_ALL);
    XMLEvent event = reader.nextEvent();
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, event.getEventType());
    Iterator<?> attributes = event.asStartElement().getAttributes();
    Assert.assertEquals(XMLStreamConstants.ATTRIBUTE, ((Attribute)attributes.next()).getEventType());
    Assert.assertFalse(attributes.hasNext());
    Iterator<?> namespaces = event.asStartElement().getNamespaces();
    Assert.assertEquals(XMLStreamConstants.NAMESPACE, ((Namespace)namespaces.next()).getEventType());
    Assert.assertFalse(attributes.hasNext());
}

@Test
public void testComment() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<!--james-->", ACCEPT_ALL);
    Assert.assertEquals(XMLStreamConstants.COMMENT, reader.nextEvent().getEventType());
    Assert.assertFalse(reader.hasNext());
}

@Test
public void testComment2() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<!--james-->", new
TypeFilter(XMLStreamConstants.COMMENT));
    Assert.assertFalse(reader.hasNext());
}

@Test
public void testProcessingInstruction() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<?joe?>", ACCEPT_ALL);
    Assert.assertEquals(XMLStreamConstants.PROCESSING_INSTRUCTION, reader.nextEvent().getEventType());
    Assert.assertFalse(reader.hasNext());
}

@Test
public void testProcessingInstruction2() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<?joe?>", new
TypeFilter(XMLStreamConstants.PROCESSING_INSTRUCTION));

```

```

    Assert.assertFalse(reader.hasNext());
}

@Test
public void testPeek() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<?xml version='1.0'?><alice david='edgar'>bob</alice>",
ACCEPT_ALL);
    while (reader.hasNext()) {
        Assert.assertEquals(reader.peek(), reader.nextEvent());
    }
}

@Test
public void testPeek2() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<?xml version='1.0'?><alice david='edgar'>bob</alice>",
new TypeFilter(XMLStreamConstants.START_ELEMENT));
    while (reader.hasNext()) {
        Assert.assertEquals(reader.peek(), reader.nextEvent());
    }
}

@Test
public void testGetElementText() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<alice david='edgar'>bob</alice>", ACCEPT_ALL);
    reader.next();
    Assert.assertEquals("bob", reader.getElementText());

    reader = createXmlEventReader("<alice david='edgar'>bob</alice>", ACCEPT_ALL);
    reader.next();
    reader.peek();
    Assert.assertEquals("bob", reader.getElementText());
}

@Test
public void testGetElementText2() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<alice david='edgar'>bob</alice>", new
TypeFilter(XMLStreamConstants.CHARACTERS));
    reader.next();
    Assert.assertEquals("", reader.getElementText());

    reader = createXmlEventReader("<alice david='edgar'>bob</alice>", new
TypeFilter(XMLStreamConstants.CHARACTERS));
    reader.next();
    reader.peek();
    Assert.assertEquals("", reader.getElementText());
}

@Test

```

```

public void testNextTag() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<?xml version='1.0'><alice
david='edgar'><edgar/></alice>", ACCEPT_ALL);
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextTag().getEventType());
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextTag().getEventType());
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextTag().getEventType());
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextTag().getEventType());

    reader = createXmlEventReader("<?xml version='1.0'><alice david='edgar'><edgar/></alice>",
ACCEPT_ALL);
    reader.peek();
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextTag().getEventType());
    reader.peek();
    Assert.assertEquals(XMLStreamConstants.START_ELEMENT, reader.nextTag().getEventType());
    reader.peek();
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextTag().getEventType());
    reader.peek();
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextTag().getEventType());
}

@Test
public void testNextTag2() throws XMLStreamException {
    XMLEventReader reader = createXmlEventReader("<?xml version='1.0'><alice
david='edgar'><edgar/></alice>", new TypeFilter(XMLStreamConstants.START_ELEMENT));
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextTag().getEventType());
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextTag().getEventType());

    reader = createXmlEventReader("<?xml version='1.0'><alice david='edgar'><edgar/></alice>", new
TypeFilter(XMLStreamConstants.START_ELEMENT));
    reader.peek();
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextTag().getEventType());
    reader.peek();
    Assert.assertEquals(XMLStreamConstants.END_ELEMENT, reader.nextTag().getEventType());
}
}
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```

```

* limitations under the License.
*/
package de.odysseus.staxon.json;

import javax.xml.namespace.QName;

/**
 * <p>Simple JSON XML configuration.</p>
 *
 * <p>Initially, values are set according to { @link JsonXMLConfig#DEFAULT}</p>
 * @see JsonXMLConfig
 */
public class JsonXMLConfigImpl implements JsonXMLConfig, Cloneable {
    private QName virtualRoot = JsonXMLConfig.DEFAULT.getVirtualRoot();
    private boolean multiplePI = JsonXMLConfig.DEFAULT.isMultiplePI();
    private boolean prettyPrint = JsonXMLConfig.DEFAULT.isPrettyPrint();
    private boolean autoArray = JsonXMLConfig.DEFAULT.isAutoArray();
    private boolean autoPrimitive = JsonXMLConfig.DEFAULT.isAutoPrimitive();
    private boolean namespaceDeclarations = JsonXMLConfig.DEFAULT.isNamespaceDeclarations();
    private char namespaceSeparator = JsonXMLConfig.DEFAULT.getNamespaceSeparator();

    private boolean repairingNamespaces = JsonXMLConfig.DEFAULT.isRepairingNamespaces();

    @Override
    protected JsonXMLConfigImpl clone() {
        try {
            return (JsonXMLConfigImpl) super.clone();
        } catch (CloneNotSupportedException e) {
            throw new RuntimeException(e); // should not happen
        }
    }

    @Override
    public boolean isAutoArray() {
        return autoArray;
    }

    public void setAutoArray(boolean autoArray) {
        this.autoArray = autoArray;
    }

    @Override
    public boolean isAutoPrimitive() {
        return autoPrimitive;
    }

    public void setAutoPrimitive(boolean autoPrimitive) {
        this.autoPrimitive = autoPrimitive;
    }

```

```

}

@Override
public boolean isMultiplePI() {
    return multiplePI;
}

public void setMultiplePI(boolean multiplePI) {
    this.multiplePI = multiplePI;
}

@Override
public boolean isNamespaceDeclarations() {
    return namespaceDeclarations;
}

public void setNamespaceDeclarations(boolean namespaceDeclarations) {
    this.namespaceDeclarations = namespaceDeclarations;
}

@Override
public char getNamespaceSeparator() {
    return namespaceSeparator;
}

public void setNamespaceSeparator(char namespaceSeparator) {
    this.namespaceSeparator = namespaceSeparator;
}

@Override
public boolean isPrettyPrint() {
    return prettyPrint;
}

public void setPrettyPrint(boolean prettyPrint) {
    this.prettyPrint = prettyPrint;
}

@Override
public QName getVirtualRoot() {
    return virtualRoot;
}

public void setVirtualRoot(QName virtualRoot) {
    this.virtualRoot = virtualRoot;
}

@Override

```

```

public boolean isRepairingNamespaces() {
    return repairingNamespaces;
}

public void setRepairingNamespaces(boolean repairingNamespaces) {
    this.repairingNamespaces = repairingNamespaces;
}
}
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 */
package de.odysseus.staxon.json.stream.util;

import java.io.IOException;
import java.math.BigDecimal;
import java.util.regex.Pattern;

import de.odysseus.staxon.json.stream.JsonStreamTarget;

/**
 * Target-filter to auto-convert string values to primitive (boolean, number, null) values.
 */
public class AutoPrimitiveTarget extends StreamTargetDelegate {
    private final Pattern number = Pattern.compile("^-(0|[1-9][0-9]*)((\\.[0-9]+)?|[eE][+-]?[0-9]+)?$");
    private final boolean convertAttributes;

    private String lastName;

    public AutoPrimitiveTarget(JsonStreamTarget delegate, boolean convertAttributes) {
        super(delegate);
        this.convertAttributes = convertAttributes;
    }

    @Override
    public void name(String name) throws IOException {
        lastName = name;
    }

```

```

super.name(name);
}

@Override
public void value(Object value) throws IOException {
    if (value instanceof String && (convertAttributes || !lastName.startsWith("@"))) {
        if ("true".equals(value)) {
            super.value(Boolean.TRUE);
        } else if ("false".equals(value)) {
            super.value(Boolean.FALSE);
        } else if ("null".equals(value)) {
            super.value(null);
        } else if (number.matcher(value.toString()).matches()) {
            super.value(new BigDecimal(value.toString()));
        } else {
            super.value(value);
        }
    } else {
        super.value(value);
    }
}
}
}
}
}
/*
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 * limitations under the License.
 */
package de.odysseus.staxon.json.stream.impl;

import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.OutputStream;
import java.io.OutputStreamWriter;
import java.io.Reader;
import java.io.Writer;

import de.odysseus.staxon.json.stream.JsonStreamFactory;

```



```

import de.odysseus.staxon.json.stream.JsonStreamSource;
import de.odysseus.staxon.json.stream.JsonStreamTarget;

/**
 * Default JsonStreamFactory implementation.
 */
public class JsonStreamFactoryImpl extends JsonStreamFactory {
    private final String prettyIndent;
    private final String prettyNewline;
    private final String prettySpace;

    /**
     * Create instance.
     * Petty printing will use "\t" for indentation (per level),
     * "\n" as line separator and " " to decorate
     * colons, commas, etc.
     */
    public JsonStreamFactoryImpl() {
        this(" ", "\t", "\n");
    }

    /**
     * Create instance.
     * @param prettySpace inserted around colons, commas, etc
     * @param prettyIndent indentation per depth level
     * @param prettyNewline newline character sequence
     */
    public JsonStreamFactoryImpl(String prettySpace, String prettyIndent, String prettyNewline) {
        this.prettySpace = prettySpace;
        this.prettyIndent = prettyIndent;
        this.prettyNewline = prettyNewline;
    }

    @Override
    public JsonStreamSource createJsonStreamSource(InputStream input) throws IOException {
        return createJsonStreamSource(new InputStreamReader(input, "UTF-8"));
    }

    @Override
    public JsonStreamSource createJsonStreamSource(InputStream input, Constants.SCANNER scanner) throws
    IOException {
        return createJsonStreamSource(new InputStreamReader(input, "UTF-8"), scanner);
    }

    @Override
    public JsonStreamSource createJsonStreamSource(Reader reader) {
        return new JsonStreamSourceImpl(new Yylex(reader), false);
    }
}

```

```

@Override
public JsonStreamSource createJsonStreamSource(Reader reader, Constants.SCANNER scanner) {
    if (scanner == Constants.SCANNER.SCANNER_1) {
        return new JsonStreamSourceImpl(new JsonScanner(reader), false);
    } else if (scanner == Constants.SCANNER.SCANNER_2) {
        return new JsonStreamSourceImpl(new JsonScanner2(reader), false);
    }
    return new JsonStreamSourceImpl(new Yylex(reader), false);
}

@Override
public JsonStreamTarget createJsonStreamTarget(OutputStream output, boolean pretty) throws IOException {
    return createJsonStreamTarget(new OutputStreamWriter(output, "UTF-8"), pretty);
}

@Override
public JsonStreamTarget createJsonStreamTarget(Writer writer, boolean pretty) {
    if (pretty) {
        return new JsonStreamTargetImpl(writer, false, prettySpace, prettyIndent, prettyNewline);
    } else {
        return new JsonStreamTargetImpl(writer, false);
    }
}
}
}
}
}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
package de.odysseus.staxon.json.stream.impl;

import java.io.Closeable;
import java.io.IOException;
import java.math.BigDecimal;
import java.math.BigInteger;

import de.odysseus.staxon.json.stream.JsonStreamSource;

```

```

import de.odysseus.staxon.json.stream.JsonStreamToken;

/**
 * Default JsonStreamSource implementation.
 */
class JsonStreamSourceImpl implements JsonStreamSource {
    /**
     * Scanner interface
     */
    interface Scanner extends Closeable {
        enum Symbol {
            START_OBJECT("START_OBJECT"),
            SO_ARRAY("SO_ARRAY"),
            SO_ELEMENT("SO_ELEMENT"),
            SO_COLON_1("SO_COLON_1"),
            SO_COLON_2("SO_COLON_2"),
            SO_ARRAY_END("SO_ARRAY_END"),
            SO_ARRAY_END_2("SO_ARRAY_END_2"),
            SO_END("SO_END"),
            SO_END_2("SO_END_2"),
            SO_OBJECT("SO_OBJECT"),
            SO_OBJECT_COL("SO_OBJECT_COL"),
            SO_OBJECT_END("SO_OBJECT_END"),
            END_OBJECT("END_OBJECT"),
            START_ARRAY("START_ARRAY"),
            END_ARRAY("END_ARRAY"),
            COLON("COLON"),
            COMMA("COMMA"),
            STRING("STRING"),
            NUMBER("NUMBER"),
            TRUE("TRUE"),
            FALSE("FALSE"),
            NULL("NULL"),
            EMPTY_OBJ_NAME("EMPTY_OBJ_NAME"),
            EMPTY_OBJ_VALUE("EMPTY_OBJ_VALUE"),
            EMPTY_OBJ_END("EMPTY_OBJ_END"),
            EOF("EOF"),
            EOF_OBJ("EOF_OBJ");

            private String name = null;

            Symbol(String name) {
                this.name = name;
            }

            public String toString(){
                return name;
            }
        }
    }
}

```

```

    }
    Symbol nextSymbol() throws IOException;
    String getText();

    int getCharOffset();
    int getLineNumber();
    int getColumnNumber();
}

private final Scanner scanner;
private final boolean[] arrays = new boolean[64];
private final boolean closeScanner;

private JsonStreamToken token = null;
private Scanner.Symbol symbol = null;
private int depth = 0;
private boolean peeked = false;

private int lineNumber;
private int columnNumber;
private int charOffset;

JsonStreamSourceImpl(Scanner scanner, boolean closeScanner) {
    this.scanner = scanner;
    this.closeScanner = closeScanner;
    this.lineNumber = scanner.getLineNumber();
    this.columnNumber = scanner.getColumnNumber();
    this.charOffset = scanner.getCharOffset();
}

private JsonStreamToken startJsonValue() throws IOException {
    switch (symbol) {
        case FALSE:
        case NULL:
        case NUMBER:
        case TRUE:
        case STRING:
            return JsonStreamToken.VALUE;
        case START_ARRAY:
            if (arrays[depth]) {
                throw new IOException("Already in an array");
            }
            arrays[depth] = true;
            return JsonStreamToken.START_ARRAY;
        case START_OBJECT:
            depth++;
            return JsonStreamToken.START_OBJECT;
    }
}

```

```

default:
    throw new IOException("Unexpected symbol: " + symbol);
}
}

private void require(Scanner.Symbol expected) throws IOException {
    if (symbol != expected) {
        throw new IOException("Unexpected symbol:" + symbol);
    }
}

private JsonStreamToken next() throws IOException {
    symbol = scanner.nextSymbol();
    if (symbol == Scanner.Symbol.EOF) {
        if (depth != 0 || arrays[depth]) {
            throw new IOException("Premature EOF");
        }
        return JsonStreamToken.NONE;
    }
    if (token == null) {
        return startJsonValue();
    }
    switch (token) {
        case NAME:
            require(Scanner.Symbol.COLON);
            symbol = scanner.nextSymbol();
            return startJsonValue();
        case END_OBJECT:
        case END_ARRAY:
        case VALUE:
            switch (symbol) {
                case COMMA:
                    symbol = scanner.nextSymbol();
                    if (arrays[depth]) {
                        return startJsonValue();
                    } else {
                        require(Scanner.Symbol.STRING);
                        return JsonStreamToken.NAME;
                    }
            }
        case END_ARRAY:
            if (!arrays[depth]) {
                throw new IOException("Not in an array");
            }
            arrays[depth] = false;
            return JsonStreamToken.END_ARRAY;
        case END_OBJECT:
            if (arrays[depth]) {
                throw new IOException("Unclosed array");
            }
    }
}

```

```

    }
    if (depth == 0) {
        throw new IOException("Not in an object");
    }
    depth--;
    return JsonStreamToken.END_OBJECT;
default:
    throw new IOException("Unexpected symbol: " + symbol);
}
case START_OBJECT:
    switch (symbol) {
    case END_OBJECT:
        depth--;
        return JsonStreamToken.END_OBJECT;
    case STRING:
        return JsonStreamToken.NAME;
    default:
        throw new IOException("Unexpected symbol: " + symbol);
    }
case START_ARRAY:
    switch (symbol) {
    case END_ARRAY:
        arrays[depth] = false;
        return JsonStreamToken.END_ARRAY;
    default:
        return startJsonValue();
    }
default:
    throw new IOException("Unexpected token: " + token);
}
}

public void close() throws IOException {
    if (closeScanner) {
        scanner.close();
    }
}

/**
 * Make the next token the current token.
 * Save location info from scanner to prevent changing location by peek()
 * @param token expected token
 * @throws IOException
 */
private void poll(JsonStreamToken token) throws IOException {
    if (token != peek()) {
        throw new IOException("Unexpected token: " + peek());
    }
}

```

```

    lineNumber = scanner.getLineNumber();
    columnNumber = scanner.getColumnNumber();
    charOffset = scanner.getCharOffset();
    peeked = false;
}

public String name() throws IOException {
    poll(JsonStreamToken.NAME);
    return scanner.getText();
}

public Value value() throws IOException {
    poll(JsonStreamToken.VALUE);
    switch (symbol) {
        case NULL:
            return NULL;
        case STRING:
            return new Value(scanner.getText());
        case TRUE:
            return TRUE;
        case FALSE:
            return FALSE;
        case NUMBER:
            if (scanner.getText().indexOf('.') < 0 && scanner.getText().toLowerCase().indexOf('e') < 0) {
                return new Value(scanner.getText(), new BigInteger(scanner.getText()));
            } else {
                return new Value(scanner.getText(), new BigDecimal(scanner.getText()));
            }
        default:
            throw new IOException("Not a value token: " + symbol);
    }
}

public void startObject() throws IOException {
    poll(JsonStreamToken.START_OBJECT);
}

public void endObject() throws IOException {
    poll(JsonStreamToken.END_OBJECT);
}

public void startArray() throws IOException {
    poll(JsonStreamToken.START_ARRAY);
}

public void endArray() throws IOException {
    poll(JsonStreamToken.END_ARRAY);
}

```

```

public JsonStreamToken peek() throws IOException {
    if (!peeked) {
        token = next();
        peeked = true;
    }
    return token;
}

public int getLineNumber() {
    return lineNumber + 1;
}

public int getColumnNumber() {
    return columnNumber + 1;
}

public int getCharacterOffset() {
    return charOffset;
}

public String getPublicId() {
    return null;
}

public String getSystemId() {
    return null;
}
}
}
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 * limitations under the License.
 */
package de.odysseus.staxon.json.stream.impl;

import java.io.IOException;
import java.io.Writer;

```



```

import java.util.Stack;

import de.odysseus.staxon.json.stream.JsonStreamTarget;

/**
 * Default JsonStreamTarget implementation.
 */
class JsonStreamTargetImpl implements JsonStreamTarget {
    private final Writer writer;
    private final int[] namePos = new int[64];
    private final int[] arrayPos = new int[64];
    private final StringBuilder buffer = new StringBuilder();
    private final boolean closeWriter;

    private final String[] indent;
    private final String space;

    private int depth = 0;

    private JsonStreamSourceImpl.Scanner.Symbol symbol = null;
    private Stack<Character> symbols = new Stack<Character>();
    private Stack<Boolean> objects = new Stack<Boolean>();

    JsonStreamTargetImpl(Writer writer, boolean closeWriter) {
        this(writer, closeWriter, null, null, null);
    }

    JsonStreamTargetImpl(Writer writer, boolean closeWriter, String prettySpace, String prettyIndent, String
prettyNewline) {
        this.writer = writer;
        this.closeWriter = closeWriter;
        this.space = prettySpace;

        if (prettyIndent != null || prettyNewline != null) {
            this.indent = new String[64];
            StringBuilder builder = new StringBuilder();
            if (prettyNewline != null) {
                builder.append(prettyNewline);
            }
            for (int i = 0; i < 64; i++) {
                indent[i] = builder.toString();
                if (prettyIndent != null) {
                    builder.append(prettyIndent);
                }
            }
        } else {
            this.indent = null;
        }
    }
}

```

```

}

private String encode(String value) {
    buffer.setLength(0);
    for (int i = 0; i < value.length(); i++) {
        char c = value.charAt(i);
        switch (c) {
            case '"':
                buffer.append("\\\"");
                break;
            case '\\':
                buffer.append("\\\\");
                break;
            case '\b':
                buffer.append("\\b");
                break;
            case '\f':
                buffer.append("\\f");
                break;
            case '\n':
                buffer.append("\\n");
                break;
            case '\r':
                buffer.append("\\r");
                break;
            case '\t':
                buffer.append("\\t");
                break;
            default:
                if (c < ' ') {
                    buffer.append(String.format("\\u%04X", (int) c));
                } else {
                    buffer.append(c);
                }
        }
    }
    return buffer.toString();
}

public void close() throws IOException {
    if (closeWriter) {
        writer.close();
    } else {
        writer.flush();
    }
}

public void flush() throws IOException {

```

```

writer.flush();
}

public void name(String name) throws IOException {
    if (Constants.EMPTY.equals(name)) {
        writer.write(symbols.pop());
        objects.push(false);
        symbol = null;
        return;
    }
    if (symbol == JsonStreamSourceImpl.Scanner.Symbol.START_OBJECT) {
        symbol = null;
        if (Constants.ARRAY.equals(name)
            || Constants.ARRAY_ELEM.equals(name)
            || Constants.OBJECT.equals(name)) {
            symbols.pop();
            objects.push(true);
            return;
        }
        objects.push(false);
        writer.write(symbols.pop());
    }
    symbol = null;
    if (namePos[depth] > 1) {
        writer.write(',');
    }
    namePos[depth]++;
    if (indent != null) {
        writer.write(indent[depth]);
    } else if (space != null) {
        writer.write(space);
    }
    writer.write("");
    writer.write(name);
    writer.write("");
    if (space != null) {
        writer.write(space);
    }
    writer.write(':');
}

```

```

public void value(Object value) throws IOException {
    symbol = null;
    if (arrayPos[depth] > 0) {
        if (arrayPos[depth] > 1) {
            writer.write(',');
        }
        arrayPos[depth]++;
    }
}

```

```

    }
    if (space != null) {
        writer.write(space);
    }
    if (value == null) {
        writer.write("null");
    } else if (value instanceof String) {
        if (Constants.EMPTY_VALUE.equals(value)) {
            return;
        }
        writer.write("");
        writer.write(encode((String) value));
        writer.write("");
    } else {
        writer.write(value.toString());
    }
}

public void startObject() throws IOException {
    if (arrayPos[depth] > 0) {
        if (arrayPos[depth] > 1) {
            writer.write(',');
        }
        arrayPos[depth]++;
    }
    if (space != null && (depth > 0 || arrayPos[depth] > 0)) {
        writer.write(space);
    }
    //writer.write('{');
    symbols.push('{');
    symbol = JsonStreamSourceImpl.Scanner.Symbol.START_OBJECT;
    depth++;
    namePos[depth] = 1;
}

public void endObject() throws IOException {
    symbol = null;
    namePos[depth] = 0;
    depth--;
    boolean skipEndObject = objects.pop();
    if (skipEndObject) {
        return;
    }
    if (indent != null) {
        writer.write(indent[depth]);
    } else if (space != null) {
        writer.write(space);
    }
}

```

```

writer.write('}');
if (depth == 0) {
    writer.flush();
}
}

public void startArray() throws IOException {
    symbol = null;
    if (arrayPos[depth] > 0) {
        throw new IOException("Nested arrays are not supported!");
    }
    if (space != null && depth > 0) {
        writer.write(space);
    }
    writer.write '[';
    arrayPos[depth] = 1;
}

public void endArray() throws IOException {
    symbol = null;
    arrayPos[depth] = 0;
    if (space != null) {
        writer.write(space);
    }
    writer.write ']';
}
}
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 */
package de.odysseus.staxon.event;

import java.util.Iterator;

import javax.xml.namespace.NamespaceContext;
import javax.xml.namespace.QName;

```

```

import javax.xml.stream.XMLStreamReader;
import javax.xml.stream.XMLStreamWriter;
import javax.xml.stream.XMLStreamConstants;
import javax.xml.stream.XMLStreamException;
import javax.xml.stream.XMLStreamWriter;
import javax.xml.stream.events.Attribute;
import javax.xml.stream.events.Characters;
import javax.xml.stream.events.Comment;
import javax.xml.stream.events.DTD;
import javax.xml.stream.events.EntityReference;
import javax.xml.stream.events.Namespace;
import javax.xml.stream.events.ProcessingInstruction;
import javax.xml.stream.events.StartDocument;
import javax.xml.stream.events.StartElement;
import javax.xml.stream.events.XMLEvent;

/**
 * Simple implementation of {@link XMLStreamWriter}.
 */
public class SimpleXMLStreamWriter implements XMLStreamWriter {
    private final XMLStreamWriter delegate;

    public SimpleXMLStreamWriter(XMLStreamWriter delegate) {
        this.delegate = delegate;
    }

    @Override
    public void add(XMLEvent event) throws XMLStreamException {
        switch (event.getEventType()) {
            case XMLStreamConstants.ATTRIBUTE:
                Attribute attribute = (Attribute) event;
                QName attrName = attribute.getName();
                delegate.writeAttribute(attrName.getPrefix(), attrName.getNamespaceURI(), attrName.getLocalPart(),
                attribute.getValue());
                break;
            case XMLStreamConstants.END_DOCUMENT:
                delegate.writeEndDocument();
                break;
            case XMLStreamConstants.END_ELEMENT:
                delegate.writeEndElement();
                break;
            case XMLStreamConstants.NAMESPACE:
                Namespace namespace = (Namespace) event;
                delegate.writeNamespace(namespace.getPrefix(), namespace.getNamespaceURI());
                break;
            case XMLStreamConstants.START_DOCUMENT:
                StartDocument startDocument = (StartDocument) event;
                if (startDocument.encodingSet()) { // encoding defined?

```

```

    delegate.writeStartDocument(startDocument.getCharacterEncodingScheme(), startDocument.getVersion());
} else {
    delegate.writeStartDocument(startDocument.getVersion());
}
break;
case XMLStreamConstants.START_ELEMENT:
    StartElement startElement = event.asStartElement();
    QName elemName = startElement.getName();
    delegate.writeStartElement(elemName.getPrefix(), elemName.getLocalPart(), elemName.getNamespaceURI());
    Iterator<?> namespaces = startElement.getNamespaces();
    while (namespaces.hasNext()) {
        add((Namespace)namespaces.next());
    }
    Iterator<?> attributes = startElement.getAttributes();
    while (attributes.hasNext()) {
        add((Attribute)attributes.next());
    }
    break;
case XMLStreamConstants.CHARACTERS:
case XMLStreamConstants.CDATA:
    Characters characters = event.asCharacters();
    if (characters.isCDATA()) {
        delegate.writeCDATA(characters.getData());
    } else {
        delegate.writeCharacters(characters.getData());
    }
    break;
case XMLStreamConstants.COMMENT:
    delegate.writeComment(((Comment) event).getText());
    break;
case XMLStreamConstants.DTD:
    delegate.writeDTD(((DTD) event).getDocumentTypeDeclaration());
    break;
case XMLStreamConstants.ENTITY_REFERENCE:
    delegate.writeEntityRef(((EntityReference) event).getName());
    break;
case XMLStreamConstants.PROCESSING_INSTRUCTION:
    ProcessingInstruction processingInstruction = (ProcessingInstruction) event;
    delegate.writeProcessingInstruction(processingInstruction.getTarget(), processingInstruction.getData());
    break;
case XMLStreamConstants.SPACE:
    break;
default:
    throw new XMLStreamException("Cannot write event " + event);
}
}

```

@Override

```

public void add(XMLStreamReader reader) throws XMLStreamException {
    while (reader.peek() != null) {
        add(reader.nextEvent());
    }
}

@Override
public void close() throws XMLStreamException {
    delegate.close();
}

@Override
public void flush() throws XMLStreamException {
    delegate.flush();
}

@Override
public NamespaceContext getNamespaceContext() {
    return delegate.getNamespaceContext();
}

@Override
public String getPrefix(String uri) throws XMLStreamException {
    return delegate.getPrefix(uri);
}

@Override
public void setDefaultNamespace(String uri) throws XMLStreamException {
    delegate.setDefaultNamespace(uri);
}

@Override
public void setNamespaceContext(NamespaceContext ctxt) throws XMLStreamException {
    delegate.setNamespaceContext(ctxt);
}

@Override
public void setPrefix(String prefix, String uri) throws XMLStreamException {
    delegate.setPrefix(prefix, uri);
}
}
}
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 */

```



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*/
```

```
package de.odysseus.staxon.event;
```

```
import java.util.Iterator;
```

```
import javax.xml.XMLConstants;
import javax.xml.namespace.NamespaceContext;
import javax.xml.namespace.QName;
import javax.xml.stream.Location;
import javax.xml.stream.XMLEventFactory;
import javax.xml.stream.XMLStreamConstants;
import javax.xml.stream.events.Attribute;
import javax.xml.stream.events.Characters;
import javax.xml.stream.events.Comment;
import javax.xml.stream.events.DTD;
import javax.xml.stream.events.EndDocument;
import javax.xml.stream.events.EndElement;
import javax.xml.stream.events.EntityDeclaration;
import javax.xml.stream.events.EntityReference;
import javax.xml.stream.events.Namespace;
import javax.xml.stream.events.ProcessingInstruction;
import javax.xml.stream.events.StartDocument;
import javax.xml.stream.events.StartElement;
```

```
/**
```

```
 * Simple implementation of { @link XMLEventFactory }.
*/
```

```
public class SimpleXMLEventFactory extends XMLEventFactory {
    private Location location;
```

```
    public SimpleXMLEventFactory() {
        this(null);
    }
```

```
    public SimpleXMLEventFactory(Location location) {
        setLocation(location);
    }
```

```
    @Override
```

```
    public void setLocation(Location location) {
        this.location = location;
    }
```

```

}

@Override
public Attribute createAttribute(String prefix, String namespaceURI, String localName, String value) {
    return createAttribute(new QName(namespaceURI, localName, prefix), value);
}

@Override
public Attribute createAttribute(String localName, String value) {
    return createAttribute(new QName(localName), value);
}

@Override
public Attribute createAttribute(QName name, String value) {
    return new SimpleXMLEventAllocator.AttributeEvent(location, name, value, true);
}

@Override
public Namespace createNamespace(String namespaceURI) {
    return createNamespace(XMLConstants.DEFAULT_NS_PREFIX, namespaceURI);
}

@Override
public Namespace createNamespace(String prefix, String namespaceURI) {
    return new SimpleXMLEventAllocator.NamespaceEvent(location, namespaceURI, prefix);
}

@Override
@SuppressWarnings({"rawtypes", "unchecked"})
StartElement createStartElement(QName name, Iterator attributes, Iterator namespaces, NamespaceContext context)
{
    return new SimpleXMLEventAllocator.StartElementEvent(location, name, attributes, namespaces, context);
}

@Override
@SuppressWarnings({"rawtypes"})
public StartElement createStartElement(QName name, Iterator attributes, Iterator namespaces) {
    return createStartElement(name, attributes, namespaces, null);
}

@Override
public StartElement createStartElement(String prefix, String namespaceUri, String localName) {
    return createStartElement(new QName(namespaceUri, localName, prefix), null, null);
}

@Override
@SuppressWarnings({"rawtypes"})
public StartElement createStartElement(String prefix, String namespaceUri, String localName, Iterator attributes,
Iterator namespaces) {

```

```

return createStartElement(new QName(namespaceUri, localName, prefix), attributes, namespaces);
}

@Override
@SuppressWarnings({"rawtypes"})
public StartElement createStartElement(String prefix, String namespaceUri, String localName, Iterator attributes,
Iterator namespaces, NamespaceContext context) {
return createStartElement(new QName(namespaceUri, localName, prefix), attributes, namespaces, context);
}

@Override
@SuppressWarnings({"rawtypes", "unchecked"})
public EndElement createEndElement(QName name, Iterator namespaces) {
return new SimpleXMLEventAllocator.EndElementEvent(location, name, namespaces);
}

@Override
public EndElement createEndElement(String prefix, String namespaceUri, String localName) {
return createEndElement(new QName(namespaceUri, localName, prefix), null);
}

@Override
@SuppressWarnings({"rawtypes"})
public EndElement createEndElement(String prefix, String namespaceUri, String localName, Iterator namespaces) {
return createEndElement(new QName(namespaceUri, localName, prefix), namespaces);
}

@Override
public Characters createCharacters(String content) {
return new SimpleXMLEventAllocator.CharactersEvent(XMLStreamConstants.CHARACTERS, location, content,
false);
}

@Override
public Characters createCDATA(String content) {
return new SimpleXMLEventAllocator.CharactersEvent(XMLStreamConstants.CDATA, location, content, false);
}

@Override
public Characters createSpace(String content) {
return new SimpleXMLEventAllocator.CharactersEvent(XMLStreamConstants.CHARACTERS, location, content,
true);
}

@Override
public Characters createIgnorableSpace(String content) {
return new SimpleXMLEventAllocator.CharactersEvent(XMLStreamConstants.SPACE, location, content, true);
}

```

```

@Override
public StartDocument createStartDocument() {
    return new SimpleXMLEventAllocator.StartDocumentEvent(location, null, null, null);
}

@Override
public StartDocument createStartDocument(String encoding, String version, boolean standalone) {
    return new SimpleXMLEventAllocator.StartDocumentEvent(location, encoding, version, standalone);
}

@Override
public StartDocument createStartDocument(String encoding, String version) {
    return new SimpleXMLEventAllocator.StartDocumentEvent(location, encoding, version, null);
}

@Override
public StartDocument createStartDocument(String encoding) {
    return new SimpleXMLEventAllocator.StartDocumentEvent(location, encoding, null, null);
}

@Override
public EndDocument createEndDocument() {
    return new SimpleXMLEventAllocator.EndDocumentEvent(location);
}

@Override
public EntityReference createEntityReference(String name, EntityDeclaration declaration) {
    return new SimpleXMLEventAllocator.EntityReferenceEvent(location, name, declaration);
}

@Override
public Comment createComment(String text) {
    return new SimpleXMLEventAllocator.CommentEvent(location, text);
}

@Override
public ProcessingInstruction createProcessingInstruction(String target, String data) {
    return new SimpleXMLEventAllocator.ProcessingInstructionEvent(location, target, data);
}

@Override
public DTD createDTD(String dtd) {
    throw new UnsupportedOperationException("DTD event is not supported");
}
}
/*
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```

```

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*/

```

```
package de.odysseus.staxon.event;
```

```

import javax.xml.stream.EventFilter;
import javax.xml.stream.XMLStreamReader;
import javax.xml.stream.XMLStreamConstants;
import javax.xml.stream.XMLStreamException;
import javax.xml.stream.events.EntityReference;
import javax.xml.stream.events.XMLEvent;
import javax.xml.stream.util.EventReaderDelegate;

```

```
/**
```

```
* Simple implementation of a filtered { @link XMLStreamReader }.
```

```
*/
```

```
public class SimpleXMLFilteredEventReader extends EventReaderDelegate {
    private final EventFilter filter;
```

```
    private int currentEventType = -1;
```

```

    public SimpleXMLFilteredEventReader(XMLStreamReader reader, EventFilter filter) {
        super(reader);
        this.filter = filter;
    }

```

```
@Override
```

```

    public void setParent(XMLStreamReader reader) {
        throw new UnsupportedOperationException();
    }

```

```
@Override
```

```

    public boolean hasNext() {
        try {
            while (getParent().hasNext()) {
                if (filter.accept(getParent().peek())) {
                    return true;
                }
            }
        }
    }

```

```

    getParent().nextEvent();
}
return false;
} catch (XMLStreamException e) {
return false;
}
}

@Override
public XMLEvent peek() throws XMLStreamException {
return hasNext() ? getParent().peek() : null;
}

@Override
public Object next() {
try {
return nextEvent();
} catch (XMLStreamException e) {
throw new RuntimeException(e);
}
}

@Override
public XMLEvent nextEvent() throws XMLStreamException {
if (hasNext()) {
XMLEvent event = getParent().nextEvent();
currentEventType = event.getEventType();
return event;
}
throw new XMLStreamException("no more events");
}

@Override
public String getElementText() throws XMLStreamException {
if (currentEventType != XMLStreamConstants.START_ELEMENT) {
throw new XMLStreamException("Expected start element event");
}
StringBuilder builder = null;
String leadText = null;
while (true) {
XMLEvent event = nextEvent();
String data = null;
switch (event.getEventType()) {
case XMLStreamConstants.ENTITY_REFERENCE:
data = ((EntityReference) event).getName();
break;
case XMLStreamConstants.CDATA:
case XMLStreamConstants.CHARACTERS:

```

```

    data = event.asCharacters().getData();
    break;
case XMLStreamConstants.COMMENT:
case XMLStreamConstants.PROCESSING_INSTRUCTION:
case XMLStreamConstants.SPACE:
    break;
case XMLStreamConstants.END_ELEMENT:
    return builder == null ? (leadText == null ? "" : leadText) : builder.toString();
default:
    throw new XMLStreamException("Unexpected event type " + currentEventType, event.getLocation());
}
if (data != null) {
    if (leadText == null) { // first event?
        leadText = data;
    } else {
        if (builder == null) { // second event?
            builder = new StringBuilder(leadText);
        }
        builder.append(data);
    }
}
}
}
}
}

```

@Override

```

public XMLEvent nextTag() throws XMLStreamException {
    while (true) {
        XMLEvent event = nextEvent();
        switch (event.getEventType()) {
            case XMLStreamConstants.START_DOCUMENT:
                break;
            case XMLStreamConstants.COMMENT:
            case XMLStreamConstants.PROCESSING_INSTRUCTION:
            case XMLStreamConstants.SPACE:
                break;
            case XMLStreamConstants.CDATA:
            case XMLStreamConstants.CHARACTERS:
                if (!event.asCharacters().isWhiteSpace()) {
                    throw new XMLStreamException("Encountered non-whitespace text");
                }
                break;
            case XMLStreamConstants.START_ELEMENT:
            case XMLStreamConstants.END_ELEMENT:
                return event;
            default:
                throw new XMLStreamException("Encountered unexpected event: " + event.getEventType());
        }
    }
}
}

```

```

}
}
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 */
package de.odysseus.staxon.event;

import javax.xml.stream.XMLStreamReader;
import javax.xml.stream.XMLStreamConstants;
import javax.xml.stream.XMLStreamException;
import javax.xml.stream.XMLStreamReader;
import javax.xml.stream.events.XMLEvent;
import javax.xml.stream.util.XMLEventAllocator;

/**
 * Simple implementation of { @link XMLStreamReader }.
 */
public class SimpleXMLStreamReader implements XMLStreamReader {
    private final XMLEventAllocator allocator;
    private final XMLStreamReader delegate;

    private int currentEventType = -1;
    private XMLEvent peekedEvent = null;

    public SimpleXMLStreamReader(XMLStreamReader delegate) {
        this(delegate, new SimpleXMLEventAllocator());
    }

    public SimpleXMLStreamReader(XMLStreamReader delegate, XMLEventAllocator allocator) {
        this.delegate = delegate;
        this.allocator = allocator;
    }

    protected XMLEvent allocate() throws XMLStreamException {
        return allocator.allocate(delegate);
    }
}

```



```

@Override
public void close() throws XMLStreamException {
    delegate.close();
}

@Override
public String getElementText() throws XMLStreamException {
    if (currentEventType != XMLStreamConstants.START_ELEMENT) {
        throw new XMLStreamException("Expected start element event");
    }

    if (peekedEvent == null) {
        String result = delegate.getElementText();
        currentEventType = delegate.getEventType();
        if (currentEventType != XMLStreamConstants.END_ELEMENT) {
            throw new XMLStreamException("Expected end element event");
        }
        return result;
    }

    currentEventType = peekedEvent.getEventType();
    assert currentEventType == delegate.getEventType();
    peekedEvent = null;

    String leadText = null;
    switch (currentEventType) {
        case XMLStreamConstants.CDATA:
        case XMLStreamConstants.CHARACTERS:
        case XMLStreamConstants.ENTITY_REFERENCE:
            leadText = delegate.getText();
            break;
        case XMLStreamConstants.COMMENT:
        case XMLStreamConstants.PROCESSING_INSTRUCTION:
        case XMLStreamConstants.SPACE:
            break;
        case XMLStreamConstants.END_ELEMENT:
            return "";
        default:
            throw new XMLStreamException("Unexpected event type " + currentEventType, delegate.getLocation());
    }

    StringBuilder builder = null;
    while (true) {
        currentEventType = delegate.next();
        switch (currentEventType) {
            case XMLStreamConstants.CDATA:
            case XMLStreamConstants.CHARACTERS:

```

```

case XMLStreamConstants.ENTITY_REFERENCE:
    if (leadText == null) { // first event?
        leadText = delegate.getText();
    } else {
        if (builder == null) { // second event?
            builder = new StringBuilder(leadText);
        }
        builder.append(delegate.getText());
    }
    break;
case XMLStreamConstants.COMMENT:
case XMLStreamConstants.PROCESSING_INSTRUCTION:
case XMLStreamConstants.SPACE:
    break;
case XMLStreamConstants.END_ELEMENT:
    return builder == null ? (leadText == null ? "" : leadText) : builder.toString();
default:
    throw new XMLStreamException("Unexpected event type " + currentEventType, delegate.getLocation());
}
}
}

@Override
public Object getProperty(String name) {
    return delegate.getProperty(name);
}

@Override
public boolean hasNext() {
    try {
        return peek() != null;
    } catch (XMLStreamException e) {
        throw new RuntimeException("Cannot determine next state", e);
    }
}

@Override
public XMLEvent nextEvent() throws XMLStreamException {
    XMLEvent currentEvent = peek();
    if (currentEvent == null) {
        throw new XMLStreamException("no more events");
    }
    currentEventType = currentEvent.getEventType();
    peekedEvent = null;
    return currentEvent;
}

```

```

@Override
public Object next() {
    try {
        return nextEvent();
    } catch (XMLStreamException e) {
        throw new RuntimeException(e);
    }
}

@Override
public XMLEvent nextTag() throws XMLStreamException {
    if (peekedEvent == null) {
        currentEventType = delegate.nextTag();
        if (currentEventType != XMLStreamConstants.START_ELEMENT && currentEventType !=
XMLStreamConstants.END_ELEMENT) {
            throw new XMLStreamException("Expected start element event or end element event");
        }
        return allocate();
    }

    currentEventType = peekedEvent.getEventType();
    assert currentEventType == delegate.getEventType();
    XMLEvent event = peekedEvent;
    peekedEvent = null;

    switch (event.getEventType()) {
        case XMLStreamConstants.START_DOCUMENT:
            break;
        case XMLStreamConstants.COMMENT:
        case XMLStreamConstants.PROCESSING_INSTRUCTION:
        case XMLStreamConstants.SPACE:
            break;
        case XMLStreamConstants.CDATA:
        case XMLStreamConstants.CHARACTERS:
            if (!event.asCharacters().isWhiteSpace()) {
                throw new XMLStreamException("Encountered non-whitespace text");
            }
            break;
        case XMLStreamConstants.START_ELEMENT:
        case XMLStreamConstants.END_ELEMENT:
            return event;
        default:
            throw new XMLStreamException("Encountered unexpected event: " + event.getEventType());
    }

    while (true) {
        currentEventType = delegate.next();

```

```

switch (currentEventType) {
case XMLStreamConstants.COMMENT:
case XMLStreamConstants.PROCESSING_INSTRUCTION:
case XMLStreamConstants.SPACE:
    continue;
case XMLStreamConstants.CDATA:
case XMLStreamConstants.CHARACTERS:
    if (!delegate.isWhiteSpace()) {
        throw new XMLStreamException("Encountered non-whitespace text");
    }
    continue;
case XMLStreamConstants.START_ELEMENT:
case XMLStreamConstants.END_ELEMENT:
    return allocate();
default:
    throw new XMLStreamException("Encountered unexpected event: " + delegate.getEventType());
}
}
}

```

@Override

```

public XMLEvent peek() throws XMLStreamException {
    if (peekedEvent == null) {
        if (currentEventType < 0) { // first event
            peekedEvent = allocate();
        } else if (delegate.hasNext()) {
            delegate.next();
            peekedEvent = allocate();
        }
    }
    return peekedEvent;
}

```

@Override

```

public void remove() {
    throw new UnsupportedOperationException("Cannot remove events");
}
}

```

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```
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```

```
*/
```

```
package de.odysseus.staxon.event;
```

```
import java.io.IOException;  
import java.io.StringWriter;  
import java.io.Writer;  
import java.util.ArrayList;  
import java.util.Collections;  
import java.util.Iterator;  
import java.util.List;
```

```
import javax.xml.XMLConstants;  
import javax.xml.namespace.NamespaceContext;  
import javax.xml.namespace.QName;  
import javax.xml.stream.Location;  
import javax.xml.stream.XMLStreamConstants;  
import javax.xml.stream.XMLStreamException;  
import javax.xml.stream.XMLStreamReader;  
import javax.xml.stream.events.Attribute;  
import javax.xml.stream.events.Characters;  
import javax.xml.stream.events.Comment;  
import javax.xml.stream.events.EndDocument;  
import javax.xml.stream.events.EndElement;  
import javax.xml.stream.events.EntityDeclaration;  
import javax.xml.stream.events.EntityReference;  
import javax.xml.stream.events.Namespace;  
import javax.xml.stream.events.ProcessingInstruction;  
import javax.xml.stream.events.StartDocument;  
import javax.xml.stream.events.StartElement;  
import javax.xml.stream.events.XMLEvent;  
import javax.xml.stream.util.XMLEventAllocator;  
import javax.xml.stream.util.XMLEventConsumer;
```

```
/**
```

```
 * Simple implementation of { @link XMLEventAllocator }.
```

```
*/
```

```
public class SimpleXMLEventAllocator implements XMLEventAllocator {  
    static abstract class AbstractXMLEvent implements XMLEvent {  
        static <E> List<E> toList(Iterator<E> iterator) {  
            if (iterator == null || !iterator.hasNext()) {  
                return Collections.emptyList();  
            } else {  
                List<E> list = new ArrayList<E>();  
                while (iterator.hasNext()) {
```

```

    list.add(iterator.next());
}
return list;
}
}

final int eventType;
final Location location;
AbstractXMLEvent(int eventType, Location location) {
    this.eventType = eventType;
    this.location = location;
}
@Override
public Characters asCharacters() {
    return (Characters) this;
}
@Override
public StartElement asStartElement() {
    return (StartElement) this;
}
@Override
public EndElement asEndElement() {
    return (EndElement) this;
}
@Override
public int getEventType() {
    return eventType;
}
@Override
public Location getLocation() {
    return location;
}
@Override
public QName getSchemaType() {
    return null;
}
@Override
public boolean isAttribute() {
    return eventType == XMLStreamConstants.ATTRIBUTE;
}
@Override
public boolean isCharacters() {
    return eventType == XMLStreamConstants.CHARACTERS || eventType == XMLStreamConstants.CDATA;
}
@Override
public boolean isEndDocument() {
    return eventType == XMLStreamConstants.END_DOCUMENT;
}
}

```

```

@Override
public boolean isEndElement() {
    return eventType == XMLStreamConstants.END_ELEMENT;
}
@Override
public boolean isEntityReference() {
    return eventType == XMLStreamConstants.ENTITY_REFERENCE;
}
@Override
public boolean isNamespace() {
    return eventType == XMLStreamConstants.NAMESPACE;
}
@Override
public boolean isProcessingInstruction() {
    return eventType == XMLStreamConstants.PROCESSING_INSTRUCTION;
}
@Override
public boolean isStartDocument() {
    return eventType == XMLStreamConstants.START_DOCUMENT;
}
@Override
public boolean isStartElement() {
    return eventType == XMLStreamConstants.START_ELEMENT;
}
@Override
public String toString() {
    try {
        Writer writer = new StringWriter();
        writer.write(getClass().getSimpleName());
        writer.write('(');
        writeAsEncodedUnicodeInternal(writer);
        writer.write(')');
        return writer.toString();
    } catch (IOException e) {
        return super.toString();
    }
}
@Override
public void writeAsEncodedUnicode(Writer writer) throws XMLStreamException {
    try {
        writeAsEncodedUnicodeInternal(writer);
    } catch (IOException e) {
        throw new XMLStreamException(e);
    }
}

}
abstract void writeAsEncodedUnicodeInternal(Writer writer) throws IOException;
}

```

```

static class AttributeEvent extends AbstractXMLEvent implements Attribute {
    final QName name;
    final String value;
    final boolean specified;
    AttributeEvent(Location location, QName name, String value, boolean specified) {
        this(XMLStreamConstants.ATTRIBUTE, location, name, value, specified);
    }
    AttributeEvent(int eventType, Location location, QName name, String value, boolean specified) {
        super(eventType, location);
        assert eventType == XMLStreamConstants.ATTRIBUTE || eventType == XMLStreamConstants.NAMESPACE;
        this.name = name;
        this.value = value;
        this.specified = specified;
    }
    @Override
    public String getDTDType() {
        return "CDATA";
    }
    @Override
    public QName getName() {
        return name;
    }
    @Override
    public String getValue() {
        return value;
    }
    @Override
    public boolean isSpecified() {
        return specified;
    }
    @Override
    void writeAsEncodedUnicodeInternal(Writer writer) throws IOException {
        if (!XMLConstants.DEFAULT_NS_PREFIX.equals(name.getPrefix())) {
            writer.write(name.getPrefix());
            writer.write(':');
        }
        writer.write(name.getLocalPart());
        writer.write('=');
        writer.write("");
        for (int i = 0; i < value.length(); i++) {
            char c = value.charAt(i);
            switch (c) {
                case '<':
                    writer.write("&lt;");
                    break;
                case '>':
                    writer.write("&gt;");

```



```

        break;
    case '&':
        writer.write("&");
        break;
    case "'":
        writer.write("&quot;");
        break;
    default:
        writer.write(c);
    }
}
writer.write("");
}
}

```

```

static class CharactersEvent extends AbstractXMLEvent implements Characters {
    final String data;
    final boolean whitespace;
    CharactersEvent(XMLStreamReader reader) {
        this(reader.getEventType(), reader.getLocation(), reader.getText(), reader.isWhiteSpace());
    }
    CharactersEvent(int eventType, Location location, String data, boolean whitespace) {
        super(eventType, location);
        assert eventType == XMLStreamConstants.CHARACTERS
            || eventType == XMLStreamConstants.CDATA
            || eventType == XMLStreamConstants.SPACE;
        this.data = data;
        this.whitespace = whitespace;
    }
    @Override
    public String getData() {
        return data;
    }
    @Override
    public boolean isCDATA() {
        return eventType == XMLStreamConstants.CDATA;
    }
    @Override
    public boolean isIgnorableWhiteSpace() {
        return eventType == XMLStreamConstants.SPACE;
    }
    @Override
    public boolean isWhiteSpace() {
        return whitespace;
    }
    @Override
    void writeAsEncodedUnicodeInternal(Writer writer) throws IOException {
        if (isCDATA()) {

```



```

EndDocumentEvent(XMLStreamReader reader) {
    super(reader.getEventType(), reader.getLocation());
    assert eventType == XMLStreamConstants.END_DOCUMENT;
}
EndDocumentEvent(Location location) {
    super(XMLStreamConstants.END_DOCUMENT, location);
}
@Override
void writeAsEncodedUnicodeInternal(Writer writer) {
    // silence
}
}

static class EndElementEvent extends AbstractXMLEvent implements EndElement {
    final QName name;
    final List<NamespaceEvent> namespaces;
    EndElementEvent(XMLStreamReader reader) {
        super(reader.getEventType(), reader.getLocation());
        assert eventType == XMLStreamConstants.END_ELEMENT;
        name = reader.getName();
        if (reader.getNamespaceCount() == 0) {
            namespaces = Collections.emptyList();
        } else {
            namespaces = new ArrayList<NamespaceEvent>(reader.getNamespaceCount());
            for (int i = 0; i < reader.getNamespaceCount(); i++) {
                namespaces.add(new NamespaceEvent(location, reader.getNamespaceURI(i), reader.getNamespacePrefix(i)));
            }
        }
    }
    EndElementEvent(Location location, QName name, Iterator<NamespaceEvent> namespaces) {
        super(XMLStreamConstants.END_ELEMENT, location);
        this.name = name;
        this.namespaces = toList(namespaces);
    }
    @Override
    public QName getName() {
        return name;
    }
    @Override
    public Iterator<?> getNamespaces() {
        return namespaces.iterator();
    }
    @Override
    void writeAsEncodedUnicodeInternal(Writer writer) throws IOException {
        writer.write("</");
        if (!XMLConstants.DEFAULT_NS_PREFIX.equals(name.getPrefix())) {
            writer.write(name.getPrefix());
            writer.write(':');
        }
    }
}

```

```

    }
    writer.write(name.getLocalPart());
    writer.write('>');
    }
}

static class EntityReferenceEvent extends AbstractXMLEvent implements EntityReference {
    final String name;
    final EntityDeclaration declaration;
    EntityReferenceEvent(XMLStreamReader reader) {
        super(reader.getEventType(), reader.getLocation());
        assert eventType == XMLStreamConstants.ENTITY_REFERENCE;
        name = reader.getText();
        declaration = null; // TODO
    }
    EntityReferenceEvent(Location location, String name, EntityDeclaration declaration) {
        super(XMLStreamConstants.ENTITY_REFERENCE, location);
        this.name = name;
        this.declaration = declaration;
    }
    @Override
    public EntityDeclaration getDeclaration() {
        return declaration;
    }
    @Override
    public String getName() {
        return name;
    }
    @Override
    void writeAsEncodedUnicodeInternal(Writer writer) throws IOException {
        writer.write('&');
        writer.write(name);
        writer.write(';');
    }
}

static class NamespaceEvent extends AttributeEvent implements Namespace {
    static QName createName(String prefix) {
        if (prefix == null || XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
            return new QName(XMLConstants.XMLNS_ATTRIBUTE_NS_URI, XMLConstants.XMLNS_ATTRIBUTE);
        } else {
            return new QName(XMLConstants.XMLNS_ATTRIBUTE_NS_URI, prefix,
XMLConstants.XMLNS_ATTRIBUTE);
        }
    }
    NamespaceEvent(Location location, String namespaceURI, String prefix) {
        super(XMLStreamConstants.NAMESPACE, location, createName(prefix), namespaceURI, true);
    }
}

```

```

@Override
public String getPrefix() {
    return isDefaultNamespaceDeclaration() ? XMLConstants.DEFAULT_NS_PREFIX : getName().getLocalPart();
}
@Override
public String getNamespaceURI() {
    return getValue();
}
@Override
public boolean isDefaultNamespaceDeclaration() {
    return XMLConstants.DEFAULT_NS_PREFIX.equals(getName().getPrefix());
}
}

static class ProcessingInstructionEvent extends AbstractXMLEvent implements ProcessingInstruction {
    final String target;
    final String data;
    ProcessingInstructionEvent(XMLStreamReader reader) {
        super(reader.getEventType(), reader.getLocation());
        assert eventType == XMLStreamConstants.PROCESSING_INSTRUCTION;
        target = reader.getPITarget();
        data = reader.getPIData();
    }
    ProcessingInstructionEvent(Location location, String target, String data) {
        super(XMLStreamConstants.PROCESSING_INSTRUCTION, location);
        this.target = target;
        this.data = data;
    }
    @Override
    public String getTarget() {
        return target;
    }
    @Override
    public String getData() {
        return data;
    }
    @Override
    void writeAsEncodedUnicodeInternal(Writer writer) throws IOException {
        writer.write("<?");
        writer.write(target);
        if (data != null) {
            writer.write(' ');
            writer.write(data.trim());
        }
        writer.write(">");
    }
}

```

```

static class StartDocumentEvent extends AbstractXMLEvent implements StartDocument {
    final String encodingScheme;
    final String version;
    final Boolean standalone;
    StartDocumentEvent(XMLStreamReader reader) {
        super(reader.getEventType(), reader.getLocation());
        assert eventType == XMLStreamConstants.START_DOCUMENT;
        encodingScheme = reader.getCharacterEncodingScheme();
        version = reader.getVersion() == null ? "1.0" : reader.getVersion();
        standalone = reader.standaloneSet() ? Boolean.valueOf(reader.isStandalone()) : null;
    }
    StartDocumentEvent(Location location, String encoding, String version, Boolean standalone) {
        super(XMLStreamConstants.START_DOCUMENT, location);
        this.encodingScheme = encoding;
        this.version = version == null ? "1.0" : version;
        this.standalone = standalone;
    }
    @Override
    public String getCharacterEncodingScheme() {
        return encodingSet() ? encodingScheme : "UTF-8";
    }
    @Override
    public boolean encodingSet() {
        return encodingScheme != null;
    }
    @Override
    public String getVersion() {
        return version;
    }
    @Override
    public boolean isStandalone() {
        return standaloneSet() ? standalone.booleanValue() : false;
    }
    @Override
    public boolean standaloneSet() {
        return standalone != null;
    }
    @Override
    public String getSystemId() {
        return location.getSystemId();
    }
    @Override
    void writeAsEncodedUnicodeInternal(Writer writer) throws IOException {
        writer.write("<?xml version=" + version);
        writer.write(version);
        writer.write("");
        if (encodingSet()) {
            writer.write(" encoding=" + encodingScheme);
        }
    }
}

```

```

writer.write(encodingScheme);
writer.write("");
}
if (standaloneSet()) {
writer.write(" standalone=");
writer.write(standalone ? "yes" : "no");
writer.write("");
}
writer.write(">");
}
}

```

```

static class StartElementEvent extends AbstractXMLEvent implements StartElement {
final QName name;
final List<AttributeEvent> attributes;
final List<NamespaceEvent> namespaces;
final NamespaceContext context;
StartElementEvent(XMLStreamReader reader) {
super(reader.getEventType(), reader.getLocation());
assert eventType == XMLStreamConstants.START_ELEMENT;
name = reader.getName();
context = reader.getNamespaceContext();
if (reader.getAttributeCount() == 0) {
attributes = Collections.emptyList();
} else {
attributes = new ArrayList<AttributeEvent>(reader.getAttributeCount());
for (int i = 0; i < reader.getAttributeCount(); i++) {
attributes.add(new AttributeEvent(location, reader.getAttributeName(i), reader.getAttributeValue(i),
reader.isAttributeSpecified(i)));
}
}
if (reader.getNamespaceCount() == 0) {
namespaces = Collections.emptyList();
} else {
namespaces = new ArrayList<NamespaceEvent>(reader.getNamespaceCount());
for (int i = 0; i < reader.getNamespaceCount(); i++) {
namespaces.add(new NamespaceEvent(location, reader.getNamespaceURI(i), reader.getNamespacePrefix(i)));
}
}
}
StartElementEvent(Location location, QName name, Iterator<AttributeEvent> attributes,
Iterator<NamespaceEvent> namespaces, NamespaceContext context) {
super(XMLStreamConstants.START_ELEMENT, location);
this.name = name;
this.context = context;
this.attributes = toList(attributes);
this.namespaces = toList(namespaces);
}
}

```

```

@Override
public Attribute getAttributeByName(QName name) {
    for (Attribute attribute : attributes) {
        if (attribute.getName().equals(name)) {
            return attribute;
        }
    }
    return null;
}

@Override
public Iterator<?> getAttributes() {
    return attributes.iterator();
}

@Override
public QName getName() {
    return name;
}

@Override
public NamespaceContext getNamespaceContext() {
    return context;
}

@Override
public Iterator<?> getNamespaces() {
    return namespaces.iterator();
}

@Override
public String getNamespaceURI(String prefix) {
    for (Namespace namespace : namespaces) {
        if (namespace.getPrefix().equals(prefix)) {
            return namespace.getNamespaceURI();
        }
    }
    return null;
}

@Override
void writeAsEncodedUnicodeInternal(Writer writer) throws IOException {
    writer.write('<');
    if (!XMLConstants.DEFAULT_NS_PREFIX.equals(name.getPrefix())) {
        writer.write(name.getPrefix());
        writer.write(':');
    }
    writer.write(name.getLocalPart());
    for (NamespaceEvent namespace : namespaces) {
        writer.write(' ');
        namespace.writeAsEncodedUnicodeInternal(writer);
    }
    for (AttributeEvent attribute : attributes) {
        if (attribute.isSpecified()) {

```



```

        writer.write(' ');
        attribute.writeAsEncodedUnicodeInternal(writer);
    }
}
writer.write('>');
}
}

```

```

@Override
public XMLEventAllocator newInstance() {
    return this;
}

```

```

@Override
public XMLEvent allocate(XMLStreamReader reader) throws XMLStreamException {
    switch (reader.getEventType()) {
        case XMLStreamConstants.CDATA:
        case XMLStreamConstants.CHARACTERS:
        case XMLStreamConstants.SPACE:
            return new CharactersEvent(reader);
        case XMLStreamConstants.COMMENT:
            return new CommentEvent(reader);
        case XMLStreamConstants.DTD:
            throw new UnsupportedOperationException();
        case XMLStreamConstants.END_DOCUMENT:
            return new EndDocumentEvent(reader);
        case XMLStreamConstants.END_ELEMENT:
            return new EndElementEvent(reader);
        case XMLStreamConstants.ENTITY_REFERENCE:
            return new EntityReferenceEvent(reader);
        case XMLStreamConstants.NOTATION_DECLARATION:
            throw new UnsupportedOperationException();
        case XMLStreamConstants.PROCESSING_INSTRUCTION:
            return new ProcessingInstructionEvent(reader);
        case XMLStreamConstants.START_DOCUMENT:
            return new StartDocumentEvent(reader);
        case XMLStreamConstants.START_ELEMENT:
            return new StartElementEvent(reader);
        default:
            throw new XMLStreamException("Unexpected event type: " + reader.getEventType());
    }
}
}

```

```

@Override
public void allocate(XMLStreamReader reader, XMLEventConsumer consumer) throws XMLStreamException {
    consumer.add(allocate(reader));
}
}

```

1.1153 Streaming API for XML 1.0-2

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1.1154 Streaming API for XML (STAX API 1.0)

1.0.1

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K 13
svn:eol-style
V 6
native
K 12
svn:keywords
V 31
Date Author Id Revision HeadURL
END
```

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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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1.1174 tomcat-embed-logging-juli 7.0.8

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1.1175 tomcat-embed-logging-juli 8.0.30

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1.1181 tomcat-tribes 7.0.8

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1.1182 tribes 7.0.34.wso2v1

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1.1185 uddi4j 1.0.1

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*

*/

```
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import java.util.Vector;
import org.w3c.dom.*;
import com.ibm.uddi.*;
import com.ibm.uddi.datatype.*;
import com.ibm.uddi.datatype.binding.*;
```



```

import com.ibm.uddi.datatype.business.*;
import com.ibm.uddi.datatype.service.*;
import com.ibm.uddi.datatype.tmodel.*;
import com.ibm.uddi.request.*;
import com.ibm.uddi.response.*;
import com.ibm.uddi.util.*;

/**
 * <p><b>General information:</b></p>
 *
 * This class represents an element within the UDDI version 1.0 schema.
 * This class contains the following types of methods:<ul>
 *
 * <li>Constructor passing required fields.
 * <li>Constructor that will instantiate the object from an XML DOM element
 * that is the appropriate element for this object.
 * <li>Get/set methods for each attribute that this element can contain.
 * <li>For sets of attributes, a get/setVector method is provided.
 * <li>SaveToXML method. Serialized this class within a passed in element.
 *
 * </ul>
 * Typically this class is used to construct parameters for, or interpret
 * responses from methods in the UDDIProxy class.
 *
 * <p><b>Element description:</b></p>
 * Service element. Collection accessor for bindingTemplate information.
 *
 * <p>
 *
 * @author David Melgar
 */
public class BindingTemplates extends UDDIElement {
    public static final String UDDI_TAG = "bindingTemplates";

    protected Element base = null;

    // Vector of BindingTemplate objects
    Vector bindingTemplate = new Vector();

    /**
     * Default constructor.
     */
    public BindingTemplates() {
    }

    /**
     * Construct the object from a DOM tree. Used by

```

```

* UDDIProxy to construct object from received UDDI
* message.
*
* @param base Element with name appropriate for this class.
* @exception UDDIException
*         Thrown if DOM tree contains a SOAP fault or
*         disposition report indicating a UDDI error.
*/
public BindingTemplates(Element base) throws UDDIException {
    // Check if its a fault. Throw exception if it is
    super(base);
    NodeList nl = null;
    nl = base.getElementsByTagName(BindingTemplate.UDDI_TAG);
    for (int i=0; i < nl.getLength(); i++) {
        bindingTemplate.addElement(new BindingTemplate((Element)nl.item(i)));
    }
}

/**
* Set bindingTemplate vector
*
* @param s Vector of <I>BindingTemplate</I> objects.
*/
public void setBindingTemplateVector(Vector s) {
    bindingTemplate = s;
}

/**
* Get bindingTemplate
*
* @return s Vector of <I>BindingTemplate</I> objects.
*/
public Vector getBindingTemplateVector() {
    return bindingTemplate;
}

/**
* Save object to DOM tree. Used to serialize object
* to a DOM tree, typically to send a UDDI message.
*
* <BR>Used by UDDIProxy.
*
* @param parent Object will serialize as a child element under the
*         passed in parent element.
*/
public void saveToXML(Element parent) {
    base = parent.getOwnerDocument().createElement(UDDI_TAG);
    // Save attributes

```

```

    for (int i=0; i < bindingTemplate.size(); i++) {
        ((BindingTemplate)(bindingTemplate.elementAt(i))).saveToXML(base);
    }
    parent.appendChild(base);
}
}
/*
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*
*/

```

```

package com.ibm.uddi.datatype.binding;
import java.util.Vector;
import org.w3c.dom.*;
import com.ibm.uddi.*;
import com.ibm.uddi.datatype.*;
import com.ibm.uddi.datatype.binding.*;
import com.ibm.uddi.datatype.business.*;
import com.ibm.uddi.datatype.service.*;
import com.ibm.uddi.datatype.tmodel.*;
import com.ibm.uddi.request.*;
import com.ibm.uddi.response.*;
import com.ibm.uddi.util.*;

```

```

/**
* <p><b>General information:</b></p>
*
* This class represents an element within the UDDI version 1.0 schema.
* This class contains the following types of methods:<ul>
*
* <li>Constructor passing required fields.
* <li>Constructor that will instantiate the object from an XML DOM element
* that is the appropriate element for this object.
* <li>Get/set methods for each attribute that this element can contain.
* <li>For sets of attributes, a get/setVector method is provided.
* <li>SaveToXML method. Serialized this class within a passed in element.
*
* </ul>
* Typically this class is used to construct parameters for, or interpret
* responses from methods in the UDDIProxy class.
*
* <p><b>Element description:</b></p>
* Primary Data type: Describes an instance of a web service in technical terms.
*
* <p>

```

```

*
* @author David Melgar
*/
public class BindingTemplate extends UDDIElement {
    public static final String UDDI_TAG = "bindingTemplate";

    protected Element base = null;

    String bindingKey = null;
    String serviceKey = null;
    AccessPoint accessPoint = null;
    HostingRedirector hostingRedirector = null;
    TModelInstanceDetails tModelInstanceDetails = null;
    // Vector of Description objects
    Vector description = new Vector();

    /**
     * Default constructor.
     * Use of this constructor should be avoided. Use the required fields
     * constructor to provide validation. No validation of required
     * fields is performed when using the default constructor.
     */
    public BindingTemplate() {
    }

    /**
     * Construct the object with required fields.
     *
     * @param bindingKey String
     * @param TModelInstanceDetails TModelInstanceDetails object
     */
    public BindingTemplate(String bindingKey,
        TModelInstanceDetails tModelInstanceDetails) {
        this.bindingKey = bindingKey;
        this.tModelInstanceDetails = tModelInstanceDetails;
    }

    /**
     * Construct the object from a DOM tree. Used by
     * UDDIProxy to construct object from received UDDI
     * message.
     *
     * @param base Element with name appropriate for this class.
     * @exception UDDIException
     *         Thrown if DOM tree contains a SOAP fault or
     *         disposition report indicating a UDDI error.
     */

```

```

public BindingTemplate(Element base) throws UDDIException {
    // Check if its a fault. Throw exception if it is
    super(base);
    bindingKey = base.getAttribute("bindingKey");
    serviceKey = base.getAttribute("serviceKey");
    NodeList nl = null;
    nl = base.getElementsByTagName(AccessPoint.UDDI_TAG);
    if (nl.getLength() > 0) {
        accessPoint = new AccessPoint((Element)nl.item(0));
    }
    nl = base.getElementsByTagName(HostingRedirector.UDDI_TAG);
    if (nl.getLength() > 0) {
        hostingRedirector = new HostingRedirector((Element)nl.item(0));
    }
    nl = base.getElementsByTagName(TModelInstanceDetails.UDDI_TAG);
    if (nl.getLength() > 0) {
        tModelInstanceDetails = new TModelInstanceDetails((Element)nl.item(0));
    }
    nl = base.getElementsByTagName(Description.UDDI_TAG);
    for (int i=0; i < nl.getLength(); i++) {
        description.addElement(new Description((Element)nl.item(i)));
    }
}

public void setBindingKey(String s) {
    bindingKey = s;
}

public void setServiceKey(String s) {
    serviceKey = s;
}

public void setAccessPoint(AccessPoint s) {
    accessPoint = s;
}

public void setHostingRedirector(HostingRedirector s) {
    hostingRedirector = s;
}

public void setTModelInstanceDetails(TModelInstanceDetails s) {
    tModelInstanceDetails = s;
}

/**
 * Set description vector
 *
 * @param s Vector of <I>Description</I> objects.

```

```

*/
public void setDescriptionVector(Vector s) {
    description = s;
}

/**
 * Set description
 *
 * @param s Vector of <I>String</I> objects.
 */
public void setDescriptionStrings(Vector s) {
    description = new Vector();
    for (int i = 0; i < s.size(); i++) {
        description.addElement( new Description((String)s.elementAt(i)) );
    }
}

public String getBindingKey() {
    return bindingKey;
}

public String getServiceKey() {
    return serviceKey;
}

public AccessPoint getAccessPoint() {
    return accessPoint;
}

public HostingRedirector getHostingRedirector() {
    return hostingRedirector;
}

public TModelInstanceDetails getTModelInstanceDetails() {
    return tModelInstanceDetails;
}

/**
 * Get description
 *
 * @return s Vector of <I>Description</I> objects.
 */
public Vector getDescriptionVector() {

```

```

    return description;
}

/**
 * Get description
 *
 * @return s Vector of <I>String</I> objects.
 */
public Vector getDescriptionStrings() {
    Vector strings = new Vector();
    for (int i = 0; i < description.size(); i++) {
        strings.addElement( ((Description)description.elementAt(i)).getText());
    }
    return strings;
}

/**
 * Save object to DOM tree. Used to serialize object
 * to a DOM tree, typically to send a UDDI message.
 *
 * <BR>Used by UDDIProxy.
 *
 * @param parent Object will serialize as a child element under the
 *         passed in parent element.
 */
public void saveToXML(Element parent) {
    base = parent.getOwnerDocument().createElement(UDDI_TAG);
    // Save attributes
    if (bindingKey!=null) {
        base.setAttribute("bindingKey", bindingKey);
    }
    if (serviceKey!=null) {
        base.setAttribute("serviceKey", serviceKey);
    }
    for (int i=0; i < description.size(); i++) {
        ((Description)(description.elementAt(i))).saveToXML(base);
    }
    if (accessPoint!=null) {
        accessPoint.saveToXML(base);
    }
    if (hostingRedirector!=null) {
        hostingRedirector.saveToXML(base);
    }
    if (tModelInstanceDetails!=null) {
        tModelInstanceDetails.saveToXML(base);
    }
    parent.appendChild(base);
}

```

```

}
/*
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 *
 */

import com.ibm.uddi.*;
import com.ibm.uddi.datatype.business.*;
import com.ibm.uddi.response.*;
import com.ibm.uddi.client.*;
import org.w3c.dom.Element;
import java.util.Vector;
import java.util.Properties;

/**
 * Sample code that exercises the publish API. Attempts
 * to delete a business named 'Sample Business'.
 * <ol>
 * <li>Performs an inquiry to find this business
 * <li>get_authToken to login to server
 * <li>delete any businesses with key found in step 1.
 * </ol>
 */
public class DeleteBusinessExample {
    public static void main (String args[]) {
        /**
         * Comment out the following lines to disable SSL and HTTPS support
         * or if using a different SSL provider.
         * JSSE must be in the classpath to use or compile these lines.
         */
        System.setProperty("java.protocol.handler.pkgs",
            "com.sun.net.ssl.internal.www.protocol");
        java.security.Security.addProvider(new com.sun.net.ssl.internal.ssl.Provider());
        /**

        DeleteBusinessExample app = new DeleteBusinessExample();
        app.run();
        System.exit(0);
        }

        public void run() {
            // Construct a UDDIProxy object. Enables SSL support
            UDDIProxy proxy = new UDDIProxy();

            try {

```



```

// Select the desired UDDI server node

// The following values point to the IBM UDDI test site
proxy.setInquiryURL("http://www-3.ibm.com/services/uddi/testregistry/inquiryapi");
proxy.setPublishURL("https://www-3.ibm.com/services/uddi/testregistry/protect/publishapi");

// The following values point to the IBM UDDI official site
// proxy.setInquiryURL("http://www-3.ibm.com/services/uddi/inquiryapi");
// proxy.setPublishURL("https://www-3.ibm.com/services/uddi/protect/publishapi");

// The following values point to the Microsoft UDDI test site
// proxy.setInquiryURL("http://test.uddi.microsoft.com/inquire");
// proxy.setPublishURL("https://test.uddi.microsoft.com/publish");

// The following values point to the Microsoft UDDI official site
// proxy.setInquiryURL("http://uddi.microsoft.com/inquire");
// proxy.setPublishURL("https://uddi.microsoft.com/publish");

// The following values for a locally installed test server
// proxy.setInquiryURL("http://localhost:8080/uddi/servlet/uddi");
// proxy.setPublishURL("http://localhost:8080/uddi/servlet/uddi");

} catch (Exception e) {
    e.printStackTrace();
}
try {

// Get an authorization token
System.out.println("\nGet authtoken");

// Pass in userid and password registered at the UDDI site
AuthToken token = proxy.get_authToken("userid",
    "password" );

System.out.println("Returned authToken:" + token.getAuthInfoString());

System.out.println("Search for 'Sample business' to delete");

// Find businesses starting with 'Sample business'
BusinessList bl = proxy.find_business("Sample business", null, 0);

Vector businessInfoVector = bl.getBusinessInfos().getBusinessInfoVector();

// Try to delete any businesses with this name. Multiple businesses with the same
// name may have been created by different userids. Delete will fail for businesses
// not created by this id
for (int i = 0; i < businessInfoVector.size(); i++) {
    BusinessInfo bi = (BusinessInfo)businessInfoVector.elementAt(i);

```

```

System.out.println("Found business key:" + bi.getBusinessKey());

// Have found the matching business key, delete using the authToken
DispositionReport dr = proxy.delete_business(token.getAuthInfoString(),
        bi.getBusinessKey());

if (dr.success()) {
    System.out.println("Business successfully deleted");
} else {
    System.out.println("Errno:" + dr.getErrno() +
        "\n ErrCode:" + dr.getErrCode() +
        "\n ErrText:" + dr.getErrInfoText() );
}
}

// Handle possible errors
} catch (UDDIException e) {
    DispositionReport dr = e.getDispositionReport();
    if (dr!=null) {
        System.out.println("UDDIException faultCode:" + e.getFaultCode() +
            "\n operator:" + dr.getOperator() +
            "\n generic:" + dr.getGeneric() +
            "\n errno:" + dr.getErrno() +
            "\n errCode:" + dr.getErrCode() +
            "\n errInfoText:" + dr.getErrInfoText());
    }
    e.printStackTrace();

// Catch any other exception that may occur
} catch (Exception e) {
    e.printStackTrace();
}
}
}
/*
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*
*/

import com.ibm.uddi.*;
import com.ibm.uddi.datatype.business.*;
import com.ibm.uddi.response.*;
import com.ibm.uddi.client.*;
import org.w3c.dom.Element;
import java.util.Vector;

```

```

import java.util.Properties;

/**
 * Sample code that exercises the publish API. Attempts
 * to save a business named 'Sample Business'.
 *
 * <OL>
 * <LI>Sets up a UDDIProxy object
 * <LI>Requests an authorization token
 * <LI>Saves a business named "Sample Business"
 * <LI>Lists businesses starting with S. The new
 * business should be in the list.
 * </OL>
 */
public class SaveBusinessExample {
    public static void main (String args[]) {
        /**
         * Comment out the following lines to disable SSL and HTTPS support
         * or if using a different SSL provider.
         * JSSE must be in the classpath to use or compile these lines.
         */
        System.setProperty("java.protocol.handler.pkgs",
            "com.sun.net.ssl.internal.www.protocol");
        java.security.Security.addProvider(new com.sun.net.ssl.internal.ssl.Provider());
        /**

        SaveBusinessExample app = new SaveBusinessExample();
        app.run();
        System.exit(0);
        }

    public void run() {
        // Construct a UDDIProxy object
        UDDIProxy proxy = new UDDIProxy();

        try {
            // Select the desired UDDI server node

            // The following values point to the IBM UDDI test site
            proxy.setInquiryURL("http://www-3.ibm.com/services/uddi/testregistry/inquiryapi");
            proxy.setPublishURL("https://www-3.ibm.com/services/uddi/testregistry/protect/publishapi");

            // The following values point to the IBM UDDI official site
            // proxy.setInquiryURL("http://www-3.ibm.com/services/uddi/inquiryapi");
            // proxy.setPublishURL("https://www-3.ibm.com/services/uddi/protect/publishapi");

            // The following values point to the Microsoft UDDI test site
            // proxy.setInquiryURL("http://test.uddi.microsoft.com/inquire");

```

```

// proxy.setPublishURL("https://test.uddi.microsoft.com/publish");

// The following values point to the Microsoft UDDI official site
// proxy.setInquiryURL("http://uddi.microsoft.com/inquire");
// proxy.setPublishURL("https://uddi.microsoft.com/publish");

// The following values for a locally installed test server
// proxy.setInquiryURL("http://localhost:8080/uddi/servlet/uddi");
// proxy.setInquiryURL("http://localhost:8080/uddi/servlet/uddi");
} catch (Exception e) {
    e.printStackTrace();
}
try {

// Get an authorization token
System.out.println("\nGet authtoken");

// Pass in userid and password registered at the UDDI site
AuthToken token = proxy.get_authToken("userid",
                                     "password" );

System.out.println("Returned authToken:" + token.getAuthInfoString());

System.out.println("\nSave 'Sample business'");

// Create minimum required data objects
Vector entities = new Vector();

// Create a new business entity using required elements constructor
// Name is the business name. BusinessKey must be "" to save a new
// business
BusinessEntity be = new BusinessEntity("", "Sample Business");
entities.addElement(be);

// Save business
BusinessDetail bd = proxy.save_business(token.getAuthInfoString(),entities);

// Process returned BusinessDetail object
Vector businessEntities = bd.getBusinessEntityVector();
BusinessEntity returnedBusinessEntity = (BusinessEntity)(businessEntities.elementAt(0));
System.out.println("Returned businessKey:" + returnedBusinessEntity.getBusinessKey());

System.out.println("\nListing businesses starting with S after we publish");

// Find businesses who's name starts with S
BusinessList bl = proxy.find_business("S", null, 0);

Vector businessInfoVector = bl.getBusinessInfos().getBusinessInfoVector();

```

```

    for (int i = 0; i < businessInfoVector.size(); i++) {
        BusinessInfo businessInfo = (BusinessInfo)businessInfoVector.elementAt(i);
        System.out.println(businessInfo.getNameString());
    }

    // Handle possible errors
} catch (UDDIException e) {
    DispositionReport dr = e.getDispositionReport();
    if (dr!=null) {
        System.out.println("UDDIException faultCode:" + e.getFaultCode() +
            "\n operator:" + dr.getOperator() +
            "\n generic:" + dr.getGeneric() +
            "\n errno:" + dr.getErrno() +
            "\n errCode:" + dr.getErrCode() +
            "\n errInfoText:" + dr.getErrInfoText());
    }
    e.printStackTrace();

    // Catch any other exception that may occur
} catch (Exception e) {
    e.printStackTrace();
}
}
}
/*
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 *
 */

import com.ibm.uddi.*;
import com.ibm.uddi.datatype.business.*;
import com.ibm.uddi.response.*;
import com.ibm.uddi.client.*;
import org.w3c.dom.Element;
import java.util.Vector;
import java.util.Properties;

/**
 * Very simple use of UDDI API. Invoke a inquiry API to
 * find all businesses starting with "S".
 */
public class FindBusinessExample {
    public static void main (String args[]) {

        FindBusinessExample app = new FindBusinessExample();
    }
}

```

```

app.run();
System.exit(0);
}

public void run() {
    // Construct a UDDIProxy object. Enables SSL support
    UDDIProxy proxy = new UDDIProxy();

    try {
        // Select the desired UDDI server node

        // The following values point to the IBM UDDI test site
        proxy.setInquiryURL("http://www-3.ibm.com/services/uddi/testregistry/inquiryapi");
        proxy.setPublishURL("https://www-3.ibm.com/services/uddi/testregistry/protect/publishapi");

        // The following values point to the IBM UDDI test site
        // proxy.setInquiryURL("http://www-3.ibm.com/services/uddi/inquiryapi");
        // proxy.setPublishURL("https://www-3.ibm.com/services/uddi/protect/publishapi");

        // The following values point to the Microsoft UDDI test site
        // proxy.setInquiryURL("http://test.uddi.microsoft.com/inquire");
        // proxy.setPublishURL("https://test.uddi.microsoft.com/publish");

        // The following values point to the Microsoft UDDI official site
        // proxy.setInquiryURL("http://uddi.microsoft.com/inquire");
        // proxy.setPublishURL("https://uddi.microsoft.com/publish");

        // The following values for a locally installed test server
        // proxy.setInquiryURL("http://localhost:8080/uddi/servlet/uddi");
        // proxy.setInquiryURL("http://localhost:8080/uddi/servlet/uddi");

    } catch (Exception e) {
        e.printStackTrace();
    }
    try {

        // Find businesses who's name starts with S
        BusinessList bl = proxy.find_business("S", null, 0);

        Vector businessInfoVector = bl.getBusinessInfos().getBusinessInfoVector();
        for (int i = 0; i < businessInfoVector.size(); i++) {
            BusinessInfo businessInfo = (BusinessInfo)businessInfoVector.elementAt(i);

            // Print name for each business
            System.out.println(businessInfo.getNameString());
        }

        // Handle possible errors
    }
}

```

```

} catch (UDDIException e) {
    DispositionReport dr = e.getDispositionReport();
    if (dr!=null) {
        System.out.println("UDDIException faultCode:" + e.getFaultCode() +
            "\n operator:" + dr.getOperator() +
            "\n generic:" + dr.getGeneric() +
            "\n errno:" + dr.getErrno() +
            "\n errCode:" + dr.getErrCode() +
            "\n errInfoText:" + dr.getErrInfoText());
    }
    e.printStackTrace();

    // Catch any other exception that may occur
} catch (Exception e) {
    e.printStackTrace();
}
}
}

```

1.1186 Vaadin 6.8.8

1.1187 Validator 1.2.0

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1.1188 Wadl-core 1.1.3.wso2v2

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*/
package org.jvnet.ws.wadl.ast;

import java.util.ArrayList;
import java.util.List;

import org.jvnet.ws.wadl.Application;
import org.xml.sax Locator;

/**
 * Provides an abstraction of the Application class that contains a normalised
 * tree of off the elements required to define this WADL with the references
 * correctly substituted.
 *
 * @author gdavison
 */
public class ApplicationNode extends AbstractNode {

    private Application application;
    private List<ResourceNode> resources;

    public ApplicationNode(Application application, List<ResourceNode> resources) {
        this.application = application;
        // Defensive copy
        this.resources = java.util.Collections.unmodifiableList(
            new ArrayList<ResourceNode>(resources));
    }

    public List<ResourceNode> getResources() {
        return resources;
    }

    /**
     * @return The location of the node.
     */
    @Override
    public Locator getLocation() {
        return application.sourceLocation();
    }
}

```

```

/**
 * Allow the provided parameter to visit the current node and any
 * child nodes.
 */
public void visit(NodeVisitor visitor)
{
    super.visit(visitor);

    for (ResourceNode node : getResources()) {
        node.visit(visitor);
    }
}

}
/**
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* holder.
*/
```

```
// AttributesImpl.java - default implementation of Attributes.
// http://www.saxproject.org
// Written by David Megginson
// NO WARRANTY! This class is in the public domain.
package com.sun.xml.bind.util;
```

```
import org.xml.sax.Attributes;
```

```
/**
```

```
* Default implementation of the Attributes interface.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
```

```
* for further information.
```

```
* </blockquote>
```

```
*
```

```
* <p>This class provides a default implementation of the SAX2
```

```
* { @link org.xml.sax.Attributes Attributes } interface, with the
```

```
* addition of manipulators so that the list can be modified or
```

```
* reused.</p>
```

```
*
```

```
* <p>There are two typical uses of this class:</p>
```

```
*
```

```
* <ol>
```

```
* <li>to take a persistent snapshot of an Attributes object
```

```
* in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or</li>
```

```
* <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
```

```
* </ol>
```

```
*
```

```
* <p>This class replaces the now-deprecated SAX1 { @link
```

```
* org.xml.sax.helpers.AttributeListImpl AttributeListImpl }
```

```
* class; in addition to supporting the updated Attributes
```

```
* interface rather than the deprecated { @link org.xml.sax.AttributeList
```

```
* AttributeList } interface, it also includes a much more efficient
```

```
* implementation using a single array rather than a set of Vectors.</p>
```

```
*
```

```
* @since JAXB1.0
```

```
* @since SAX 2.0
```

```

* @author David Megginson
* @version 2.0.1 (sax2r2)
*/
public class AttributesImpl implements Attributes
{

    ////////////////////////////////////////////////////
    // Constructors.
    ////////////////////////////////////////////////////

    /**
     * Construct a new, empty AttributesImpl object.
     */
    public AttributesImpl ()
    {
length = 0;
data = null;
    }

    /**
     * Copy an existing Attributes object.
     *
     * <p>This constructor is especially useful inside a
     * { @link org.xml.sax.ContentHandler#startElement startElement } event.</p>
     *
     * @param atts The existing Attributes object.
     */
    public AttributesImpl (Attributes atts)
    {
setAttributes(atts);
    }

    ////////////////////////////////////////////////////
    // Implementation of org.xml.sax.Attributes.
    ////////////////////////////////////////////////////

    /**
     * Return the number of attributes in the list.
     *
     * @return The number of attributes in the list.
     * @see org.xml.sax.Attributes#getLength()
     */

```

```

public int getLength ()
{
return length;
}

/**
 * Return an attribute's Namespace URI.
 *
 * @param index The attribute's index (zero-based).
 * @return The Namespace URI, the empty string if none is
 *         available, or null if the index is out of range.
 * @see org.xml.sax.Attributes#getURI(int)
 */
public String getURI (int index)
{
if (index >= 0 && index < length) {
    return data[index*5];
} else {
    return null;
}
}

/**
 * Return an attribute's local name.
 *
 * @param index The attribute's index (zero-based).
 * @return The attribute's local name, the empty string if
 *         none is available, or null if the index if out of range.
 * @see org.xml.sax.Attributes#getLocalName(int)
 */
public String getLocalName (int index)
{
if (index >= 0 && index < length) {
    return data[index*5+1];
} else {
    return null;
}
}

/**
 * Return an attribute's qualified (prefixed) name.
 *
 * @param index The attribute's index (zero-based).
 * @return The attribute's qualified name, the empty string if
 *         none is available, or null if the index is out of bounds.

```



```

    * @see org.xml.sax.Attributes#getQName(int)
    */
    public String getQName (int index)
    {
    if (index >= 0 && index < length) {
        return data[index*5+2];
    } else {
        return null;
    }
    }

    /**
    * Return an attribute's type by index.
    *
    * @param index The attribute's index (zero-based).
    * @return The attribute's type, "CDATA" if the type is unknown, or null
    *         if the index is out of bounds.
    * @see org.xml.sax.Attributes#getType(int)
    */
    public String getType (int index)
    {
    if (index >= 0 && index < length) {
        return data[index*5+3];
    } else {
        return null;
    }
    }

    /**
    * Return an attribute's value by index.
    *
    * @param index The attribute's index (zero-based).
    * @return The attribute's value or null if the index is out of bounds.
    * @see org.xml.sax.Attributes#getValue(int)
    */
    public String getValue (int index)
    {
    if (index >= 0 && index < length) {
        return data[index*5+4];
    } else {
        return null;
    }
    }

    /**

```

```

* Look up an attribute's index by Namespace name.
*
* <p>In many cases, it will be more efficient to look up the name once and
* use the index query methods rather than using the name query methods
* repeatedly.</p>
*
* @param uri The attribute's Namespace URI, or the empty
* string if none is available.
* @param localName The attribute's local name.
* @return The attribute's index, or -1 if none matches.
* @see org.xml.sax.Attributes#getIndex(java.lang.String,java.lang.String)
*/
public int getIndex (String uri, String localName)
{
int max = length * 5;
for (int i = 0; i < max; i += 5) {
    if (data[i].equals(uri) && data[i+1].equals(localName)) {
return i / 5;
    }
}
return -1;
}

/**
* Can be used if parameters are interned.
*/
public int getIndexFast(String uri, String localName) {
    for (int i = (length-1)*5; i>=0; i-=5) {
        // local names tend to be different, so test it first
        if (data[i + 1] == localName && data[i] == uri ) {
            return i / 5;
        }
    }
    return -1;
}

/**
* Look up an attribute's index by qualified (prefixed) name.
*
* @param qName The qualified name.
* @return The attribute's index, or -1 if none matches.
* @see org.xml.sax.Attributes#getIndex(java.lang.String)
*/
public int getIndex (String qName)
{
int max = length * 5;
for (int i = 0; i < max; i += 5) {

```

```

        if (data[i+2].equals(qName)) {
return i / 5;
        }
    }
return -1;
}

/**
 * Look up an attribute's type by Namespace-qualified name.
 *
 * @param uri The Namespace URI, or the empty string for a name
 *           with no explicit Namespace URI.
 * @param localName The local name.
 * @return The attribute's type, or null if there is no
 *         matching attribute.
 * @see org.xml.sax.Attributes#getType(java.lang.String,java.lang.String)
 */
public String getType (String uri, String localName)
{
int max = length * 5;
for (int i = 0; i < max; i += 5) {
    if (data[i].equals(uri) && data[i+1].equals(localName)) {
return data[i+3];
    }
}
return null;
}

/**
 * Look up an attribute's type by qualified (prefixed) name.
 *
 * @param qName The qualified name.
 * @return The attribute's type, or null if there is no
 *         matching attribute.
 * @see org.xml.sax.Attributes#getType(java.lang.String)
 */
public String getType (String qName)
{
int max = length * 5;
for (int i = 0; i < max; i += 5) {
    if (data[i+2].equals(qName)) {
return data[i+3];
    }
}
return null;
}

```

```

/**
 * Look up an attribute's value by Namespace-qualified name.
 *
 * @param uri The Namespace URI, or the empty string for a name
 *           with no explicit Namespace URI.
 * @param localName The local name.
 * @return The attribute's value, or null if there is no
 *         matching attribute.
 * @see org.xml.sax.Attributes#getValue(java.lang.String,java.lang.String)
 */
public String getValue (String uri, String localName)
{
int max = length * 5;
for (int i = 0; i < max; i += 5) {
    if (data[i].equals(uri) && data[i+1].equals(localName)) {
return data[i+4];
    }
}
return null;
}

```

```

/**
 * Look up an attribute's value by qualified (prefixed) name.
 *
 * @param qName The qualified name.
 * @return The attribute's value, or null if there is no
 *         matching attribute.
 * @see org.xml.sax.Attributes#getValue(java.lang.String)
 */
public String getValue (String qName)
{
int max = length * 5;
for (int i = 0; i < max; i += 5) {
    if (data[i+2].equals(qName)) {
return data[i+4];
    }
}
return null;
}

```

```

////////////////////////////////////
// Manipulators.
////////////////////////////////////

```

```

/**
 * Clear the attribute list for reuse.
 *
 * <p>Note that little memory is freed by this call:
 * the current array is kept so it can be
 * reused.</p>
 */
public void clear ()
{
if (data != null) {
    for (int i = 0; i < (length * 5); i++)
        data [i] = null;
}
length = 0;
}

/**
 * Copy an entire Attributes object.
 *
 * <p>It may be more efficient to reuse an existing object
 * rather than constantly allocating new ones.</p>
 *
 * @param atts The attributes to copy.
 */
public void setAttributes (Attributes atts)
{
    clear();
    length = atts.getLength();
    if (length > 0) {
        data = new String[length*5];
        for (int i = 0; i < length; i++) {
            data[i*5] = atts.getURI(i);
            data[i*5+1] = atts.getLocalName(i);
            data[i*5+2] = atts.getQName(i);
            data[i*5+3] = atts.getType(i);
            data[i*5+4] = atts.getValue(i);
        }
    }
}

/**
 * Add an attribute to the end of the list.
 *
 * <p>For the sake of speed, this method does no checking

```

```

* to see if the attribute is already in the list: that is
* the responsibility of the application.</p>
*
* @param uri The Namespace URI, or the empty string if
*     none is available or Namespace processing is not
*     being performed.
* @param localName The local name, or the empty string if
*     Namespace processing is not being performed.
* @param qName The qualified (prefixed) name, or the empty string
*     if qualified names are not available.
* @param type The attribute type as a string.
* @param value The attribute value.
*/
public void addAttribute (String uri, String localName, String qName,
    String type, String value)
{
ensureCapacity(length+1);
data[length*5] = uri;
data[length*5+1] = localName;
data[length*5+2] = qName;
data[length*5+3] = type;
data[length*5+4] = value;
length++;
}

/**
* Set an attribute in the list.
*
* <p>For the sake of speed, this method does no checking
* for name conflicts or well-formedness: such checks are the
* responsibility of the application.</p>
*
* @param index The index of the attribute (zero-based).
* @param uri The Namespace URI, or the empty string if
*     none is available or Namespace processing is not
*     being performed.
* @param localName The local name, or the empty string if
*     Namespace processing is not being performed.
* @param qName The qualified name, or the empty string
*     if qualified names are not available.
* @param type The attribute type as a string.
* @param value The attribute value.
* @exception java.lang.ArrayIndexOutOfBoundsException When the
*     supplied index does not point to an attribute
*     in the list.
*/
public void setAttribute (int index, String uri, String localName,

```

```

    String qName, String type, String value)
    {
if (index >= 0 && index < length) {
    data[index*5] = uri;
    data[index*5+1] = localName;
    data[index*5+2] = qName;
    data[index*5+3] = type;
    data[index*5+4] = value;
} else {
    badIndex(index);
}
}

/**
 * Remove an attribute from the list.
 *
 * @param index The index of the attribute (zero-based).
 * @exception java.lang.ArrayIndexOutOfBoundsException When the
 *         supplied index does not point to an attribute
 *         in the list.
 */
public void removeAttribute (int index)
{
if (index >= 0 && index < length) {
    if (index < length - 1) {
System.arraycopy(data, (index+1)*5, data, index*5,
    (length-index-1)*5);
    }
    index = (length - 1) * 5;
    data [index++] = null;
    data [index++] = null;
    data [index++] = null;
    data [index++] = null;
    data [index] = null;
    length--;
} else {
    badIndex(index);
}
}

/**
 * Set the Namespace URI of a specific attribute.
 *
 * @param index The index of the attribute (zero-based).
 * @param uri The attribute's Namespace URI, or the empty
 *         string for none.

```

```

* @exception java.lang.ArrayIndexOutOfBoundsException When the
*     supplied index does not point to an attribute
*     in the list.
*/
public void setURI (int index, String uri)
{
if (index >= 0 && index < length) {
    data[index*5] = uri;
} else {
    badIndex(index);
}
}

/**
* Set the local name of a specific attribute.
*
* @param index The index of the attribute (zero-based).
* @param localName The attribute's local name, or the empty
*     string for none.
* @exception java.lang.ArrayIndexOutOfBoundsException When the
*     supplied index does not point to an attribute
*     in the list.
*/
public void setLocalName (int index, String localName)
{
if (index >= 0 && index < length) {
    data[index*5+1] = localName;
} else {
    badIndex(index);
}
}

/**
* Set the qualified name of a specific attribute.
*
* @param index The index of the attribute (zero-based).
* @param qName The attribute's qualified name, or the empty
*     string for none.
* @exception java.lang.ArrayIndexOutOfBoundsException When the
*     supplied index does not point to an attribute
*     in the list.
*/
public void setQName (int index, String qName)
{
if (index >= 0 && index < length) {
    data[index*5+2] = qName;
}
}

```



```

} else {
    badIndex(index);
}
}

/**
 * Set the type of a specific attribute.
 *
 * @param index The index of the attribute (zero-based).
 * @param type The attribute's type.
 * @exception java.lang.ArrayIndexOutOfBoundsException When the
 *     supplied index does not point to an attribute
 *     in the list.
 */
public void setType (int index, String type)
{
if (index >= 0 && index < length) {
    data[index*5+3] = type;
} else {
    badIndex(index);
}
}

/**
 * Set the value of a specific attribute.
 *
 * @param index The index of the attribute (zero-based).
 * @param value The attribute's value.
 * @exception java.lang.ArrayIndexOutOfBoundsException When the
 *     supplied index does not point to an attribute
 *     in the list.
 */
public void setValue (int index, String value)
{
if (index >= 0 && index < length) {
    data[index*5+4] = value;
} else {
    badIndex(index);
}
}

////////////////////////////////////
// Internal methods.
////////////////////////////////////

```

```

/**
 * Ensure the internal array's capacity.
 *
 * @param n The minimum number of attributes that the array must
 *         be able to hold.
 */
private void ensureCapacity (int n) {
    if (n <= 0) {
        return;
    }
    int max;
    if (data == null || data.length == 0) {
        max = 25;
    }
    else if (data.length >= n * 5) {
        return;
    }
    else {
        max = data.length;
    }
    while (max < n * 5) {
        max *= 2;
    }

    String newData[] = new String[max];
    if (length > 0) {
        System.arraycopy(data, 0, newData, 0, length*5);
    }
    data = newData;
}

/**
 * Report a bad array index in a manipulator.
 *
 * @param index The index to report.
 * @exception java.lang.ArrayIndexOutOfBoundsException Always.
 */
private void badIndex (int index)
throws ArrayIndexOutOfBoundsException
{
String msg =
    "Attempt to modify attribute at illegal index: " + index;
throw new ArrayIndexOutOfBoundsException(msg);
}

```

```

////////////////////////////////////
// Internal state.
////////////////////////////////////

int length;
String data [];

}

// end of AttributesImpl.java
/*
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```

```
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* holder.
*/
```

```
package com.sun.xml.bind.util;
```

```
import javax.xml.bind.helpers.ValidationEventLocatorImpl;
```

```
import com.sun.xml.bind.ValidationEventLocatorEx;
```

```
/**
```

```
*
```

```
*
```

```
* @author
```

```
* Kohsuke Kawaguchi (kohsuke.kawaguchi@sun.com)
```

```
*/
```

```
public class ValidationEventLocatorExImpl
```

```
    extends ValidationEventLocatorImpl implements ValidationEventLocatorEx {
```

```
    private final String fieldName;
```

```
    public ValidationEventLocatorExImpl( Object target, String fieldName ) {
```

```
        super(target);
```

```
        this.fieldName = fieldName;
```

```
    }
```

```
    public String getFieldName() {
```

```
        return fieldName;
```

```
    }
```

```
/**
```

```
 * Returns a nice string representation for better debug experience.
```

```
*/
```

```
    public String toString() {
```

```
        StringBuffer buf = new StringBuffer();
```

```
        buf.append("[url=");
```

```
        buf.append(getURL());
```

```
        buf.append(",line=");
```

```
        buf.append(getLineNumber());
```

```
        buf.append(",column=");
```

```
        buf.append(getColumnNumber());
```

```
        buf.append(",node=");
```

```
        buf.append(getNode());
```

```
        buf.append(",object=");
```

```
        buf.append(getObject());
```

```
        buf.append(",field=");
```

```
        buf.append(getFieldName());
```

```
        buf.append("]");
```

```

        return buf.toString();
    }
}
/*
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*/

package com.sun.xml.bind.v2.model.annotation;

import java.lang.annotation.Annotation;

```

```

import com.sun.xml.bind.v2.model.core.ErrorHandler;
import com.sun.xml.bind.v2.runtime.IllegalAnnotationException;

/**
 * {@link AnnotationReader} that reads annotation from classes,
 * not from external binding files.
 *
 * This is meant to be used as a convenient partial implementation.
 *
 * @author Kohsuke Kawaguchi (kk@kohsuke.org)
 */
public abstract class AbstractInlineAnnotationReaderImpl<T,C,F,M>
    implements AnnotationReader<T,C,F,M> {

    private ErrorHandler errorHandler;

    public void setErrorHandler(ErrorHandler errorHandler) {
        if(errorHandler==null)
            throw new IllegalArgumentException();
        this.errorHandler = errorHandler;
    }

    /**
     * Always return a non-null valid {@link ErrorHandler}
     */
    public final ErrorHandler getErrorHandler() {
        assert errorHandler!=null : "error handler must be set before use";
        return errorHandler;
    }

    public final <A extends Annotation> A getMethodAnnotation(Class<A> annotation, M getter, M setter, Locatable
srcPos) {
        A a1 = getter==null?null:getMethodAnnotation(annotation,getter,srcPos);
        A a2 = setter==null?null:getMethodAnnotation(annotation,setter,srcPos);

        if(a1==null) {
            if(a2==null)
                return null;
            else
                return a2;
        } else {
            if(a2==null)
                return a1;
            else {
                // both are present
                getErrorHandler().error(new IllegalAnnotationException(
                    Messages.DUPLICATE_ANNOTATIONS.format(
                        annotation.getName(), fullName(getter),fullName(setter)),

```

```

        a1, a2 ));
    // recover by ignoring one of them
    return a1;
    }
}
}

public boolean hasMethodAnnotation(Class<? extends Annotation> annotation, String propertyName, M getter, M
setter, Locatable srcPos) {
    boolean x = ( getter != null && hasMethodAnnotation(annotation, getter) );
    boolean y = ( setter != null && hasMethodAnnotation(annotation, setter) );

    if(x && y) {
        // both are present. have getMethodAnnotation report an error
        getMethodAnnotation(annotation,getter,setter,srcPos);
    }

    return x||y;
}

/**
 * Gets the fully-qualified name of the method.
 *
 * Used for error messages.
 */
protected abstract String fullName(M m);
}
/*
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```

```
package com.sun.xml.bind.v2.model.impl;
```

```
import javax.xml.namespace.QName;
import javax.xml.bind.annotation.XmlIDREF;
```

```
import com.sun.xml.bind.v2.runtime.Location;
import com.sun.xml.bind.v2.model.core.NonElement;
import com.sun.xml.bind.v2.model.core.TypeInfo;
import com.sun.xml.bind.v2.model.nav.Navigator;
import com.sun.xml.bind.v2.model.annotation.Locatable;
```

```
/**
 * {@link TypeInfo} implementation for <tt>xs:anyType</tt>.
 *
 * @author Kohsuke Kawaguchi
 */
```

```
class AnyTypeInfo<T,C> implements NonElement<T,C> {
```

```
    private final T type;
    private final Navigator<T,C,?,?> nav;
```

```
    public AnyTypeInfo(Navigator<T,C,?,?> nav) {
        this.type = nav.ref(Object.class);
        this.nav = nav;
    }
```

```
    public QName getTypeName() {
        return ANYTYPE_NAME;
    }
```



```

public T getType() {
    return type;
}

public Locatable getUpstream() {
    return null;
}

public boolean isSimpleType() {
    return false;
}

public Location getLocation() {
    return nav.getClassLocation(nav.asDecl(Object.class));
}

/**
 * xs:anyType can be referenced from { @link XmlIDREF}.
 *
 * @deprecated
 * why are you calling a method whose return value is always known?
 */
public final boolean canBeReferencedByIdref() {
    return true;
}

}

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```

```
package com.sun.xml.bind.v2.model.impl;
```

```
import javax.xml.namespace.QName;
```

```
import com.sun.xml.bind.v2.TODO;
```

```
import com.sun.xml.bind.v2.WellKnownNamespace;
```

```
import com.sun.xml.bind.v2.model.annotation.Locatable;
```

```
import com.sun.xml.bind.v2.model.core.ArrayInfo;
```

```
import com.sun.xml.bind.v2.model.core.NonElement;
```

```
import com.sun.xml.bind.v2.runtime.Location;
```

```
import com.sun.xml.bind.v2.runtime.IllegalAnnotationException;
```

```
/**
```

```
*
```

```
* <p>
```

```
* Public because XJC needs to access it
```

```
*
```

```
* @author Kohsuke Kawaguchi
```

```
*/
```

```
public class ArrayInfoImpl<TypeT,ClassDeclT,FieldT,MethodT>
```

```
    extends TypeInfoImpl<TypeT,ClassDeclT,FieldT,MethodT>
```

```
    implements ArrayInfo<TypeT,ClassDeclT>, Location {
```

```
    private final NonElement<TypeT,ClassDeclT> itemType;
```

```
    private final QName typeName;
```

```
/**
```

```

* The representation of T[] in the underlying reflection library.
*/
private final TypeT arrayType;

public ArrayInfoImpl(ModelBuilder<TypeT,ClassDeclT,FieldT,MethodT> builder,
    Locatable upstream, TypeT arrayType) {
    super(builder, upstream);
    this.arrayType = arrayType;
    TypeT componentType = nav().getComponentType(arrayType);
    this.itemType = builder.getTypeInfo(componentType, this);

    QName n = itemType.getTypeName();
    if(n==null) {
        builder.reportError(new IllegalAnnotationException(Messages.ANONYMOUS_ARRAY_ITEM.format(
            nav().getTypeName(componentType)),this));
        n = new QName("#dummy"); // for error recovery
    }
    this.typeName = calcArrayTypeName(n);
}

/**
 * Computes the type name of the array from that of the item type.
 */
public static QName calcArrayTypeName(QName n) {
    String uri;
    if(n.getNamespaceURI().equals(WellKnownNamespace.XML_SCHEMA)) {
        TODO.checkSpec("this URI");
        uri = "http://jaxb.dev.java.net/array";
    } else
        uri = n.getNamespaceURI();
    return new QName(uri,n.getLocalPart()+"Array");
}

public NonElement<TypeT, ClassDeclT> getItemType() {
    return itemType;
}

public QName getTypeName() {
    return typeName;
}

public boolean isSimpleType() {
    return false;
}

public TypeT getType() {
    return arrayType;
}

```

```

/**
 * Leaf-type cannot be referenced from IDREF.
 *
 * @deprecated
 *   why are you calling a method whose return value is always known?
 */
public final boolean canBeReferencedByIdref() {
    return false;
}

public Location getLocation() {
    return this;
}

public String toString() {
    return nav().getTypeName(arrayType);
}
}

```

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Links to all available W3C DOM Java Bindings can be found at:
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The actual classes of The Simple API for CSS (SAC) came from:
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W3C XML Schema defined in the Web Services Description (WSDL)
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Version 2.1, February 1999

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```

import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Operation</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPOperationImpl#getSoapActionURI <em>Soap
 * Action URI</em>}</li>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPOperationImpl#getStyle
 * <em>Style</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class SOAPOperationImpl extends ExtensibilityElementImpl implements SOAPOperation
{
    /**
     * This class is not intended to be serialized.
     * serialVersionUID is assigned with 1L to avoid
     * compiler warning messages.
     */
    private static final long serialVersionUID = 1L;

    /**
     * The default value of the '{ @link #getSoapActionURI() <em>Soap Action URI</em>}' attribute.
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @see #getSoapActionURI()
     * @generated
     * @ordered
     */
    protected static final String SOAP_ACTION_URI_EDEFAULT = null;

    /**
     * The cached value of the '{ @link #getSoapActionURI() <em>Soap Action URI</em>}' attribute.
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @see #getSoapActionURI()
     * @generated
     * @ordered
     */
    protected String soapActionURI = SOAP_ACTION_URI_EDEFAULT;

```

```

/**
 * The default value of the '{@link #getStyle() <em>Style</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getStyle()
 * @generated
 * @ordered
 */
protected static final String STYLE_EDEFAULT = null;

/**
 * The cached value of the '{@link #getStyle() <em>Style</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getStyle()
 * @generated
 * @ordered
 */
protected String style = STYLE_EDEFAULT;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected SOAPOperationImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return SOAPPackage.Literals.SOAP_OPERATION;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getSoapActionURI()
{
    return soapActionURI;
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setSoapActionURI(String newSoapActionURI)
{
    String oldSoapActionURI = soapActionURI;
    soapActionURI = newSoapActionURI;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET,
SOAPPackage.SOAP_OPERATION__SOAP_ACTION_URI, oldSoapActionURI, soapActionURI));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getStyle()
{
    return style;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setStyle(String newStyle)
{
    String oldStyle = style;
    style = newStyle;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_OPERATION__STYLE, oldStyle,
style));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)

```

```

    {
        case SOAPPackage.SOAP_OPERATION__SOAP_ACTION_URI:
            return getSoapActionURI();
        case SOAPPackage.SOAP_OPERATION__STYLE:
            return getStyle();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        {
            case SOAPPackage.SOAP_OPERATION__SOAP_ACTION_URI:
                setSoapActionURI((String)newValue);
                return;
            case SOAPPackage.SOAP_OPERATION__STYLE:
                setStyle((String)newValue);
                return;
        }
        super.eSet(featureID, newValue);
    }
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        {
            case SOAPPackage.SOAP_OPERATION__SOAP_ACTION_URI:
                setSoapActionURI(SOAP_ACTION_URI_EDEFAULT);
                return;
            case SOAPPackage.SOAP_OPERATION__STYLE:
                setStyle(STYLE_EDEFAULT);
                return;
        }
        super.eUnset(featureID);
    }
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_OPERATION__SOAP_ACTION_URI:
            return SOAP_ACTION_URI_EDEFAULT == null ? soapActionURI != null :
!SOAP_ACTION_URI_EDEFAULT.equals(soapActionURI);
        case SOAPPackage.SOAP_OPERATION__STYLE:
            return STYLE_EDEFAULT == null ? style != null : !STYLE_EDEFAULT.equals(style);
    }
    return super.eIsSet(featureID);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (soapActionURI: "); //$NON-NLS-1$
    result.append(soapActionURI);
    result.append(", style: "); //$NON-NLS-1$
    result.append(style);
    result.append(')');
    return result.toString();
}

//
// Reconcile methods: DOM -> Model
//

public void reconcileAttributes(Element changedElement)
{
    setSoapActionURI(SOAPConstants.getAttribute(changedElement,
SOAPConstants.SOAP_ACTION_ATTRIBUTE));
    setStyle(SOAPConstants.getAttribute(changedElement, SOAPConstants.STYLE_ATTRIBUTE));
    reconcileReferences(false);
}

```



```

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_OPERATION__SOAP_ACTION_URI)
            niceSetAttribute(theElement, SOAPConstants.SOAP_ACTION_ATTRIBUTE, getSoapActionURI());
        if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_OPERATION__STYLE)
            niceSetAttribute(theElement, SOAPConstants.STYLE_ATTRIBUTE, getStyle());
    }
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(SOAPConstants.SOAP_NAMESPACE_URI,
SOAPConstants.OPERATION_ELEMENT_TAG);
    return elementType;
}

} //SOAPOperationImpl
/*****
* Copyright (c) 2000, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.soap.internal.impl;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.impl.ENotificationImpl;

```

```

import org.eclipse.wst.wsdl.binding.soap.SOAPBinding;
import org.eclipse.wst.wsdl.binding.soap.SOAPPackage;
import org.eclipse.wst.wsdl.binding.soap.internal.util.SOAPConstants;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Binding</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPBindingImpl#getTransportURI <em>Transport
 * URI</em>}</li>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPBindingImpl#getStyle <em>Style</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class SOAPBindingImpl extends ExtensibilityElementImpl implements SOAPBinding
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The default value of the '{ @link #getTransportURI() <em>Transport URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getTransportURI()
 * @generated
 * @ordered
 */
protected static final String TRANSPORT_URI_EDEFAULT = null;

/**
 * The cached value of the '{ @link #getTransportURI() <em>Transport URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getTransportURI()
 * @generated
 * @ordered

```

```

*/
protected String transportURI = TRANSPORT_URI_EDEFAULT;

/**
 * The default value of the '{@link #getStyle() <em>Style</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getStyle()
 * @generated
 * @ordered
 */
protected static final String STYLE_EDEFAULT = null;

/**
 * The cached value of the '{@link #getStyle() <em>Style</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getStyle()
 * @generated
 * @ordered
 */
protected String style = STYLE_EDEFAULT;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected SOAPBindingImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return SOAPPackage.Literals.SOAP_BINDING;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public String getTransportURI()
{
    return transportURI;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setTransportURI(String newTransportURI)
{
    String oldTransportURI = transportURI;
    transportURI = newTransportURI;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_BINDING__TRANSPORT_URI,
oldTransportURI, transportURI));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getStyle()
{
    return style;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setStyle(String newStyle)
{
    String oldStyle = style;
    style = newStyle;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_BINDING__STYLE, oldStyle,
style));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_BINDING__TRANSPORT_URI:
            return getTransportURI();
        case SOAPPackage.SOAP_BINDING__STYLE:
            return getStyle();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_BINDING__TRANSPORT_URI:
            setTransportURI((String)newValue);
            return;
        case SOAPPackage.SOAP_BINDING__STYLE:
            setStyle((String)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_BINDING__TRANSPORT_URI:
            setTransportURI(TRANSPORT_URI_EDEFAULT);
            return;
        case SOAPPackage.SOAP_BINDING__STYLE:
            setStyle(STYLE_EDEFAULT);
            return;
    }
    super.eUnset(featureID);
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_BINDING__TRANSPORT_URI:
            return TRANSPORT_URI_EDEFAULT == null ? transportURI != null :
!TRANSPORT_URI_EDEFAULT.equals(transportURI);
        case SOAPPackage.SOAP_BINDING__STYLE:
            return STYLE_EDEFAULT == null ? style != null : !STYLE_EDEFAULT.equals(style);
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (transportURI: "); //$NON-NLS-1$
    result.append(transportURI);
    result.append(", style: "); //$NON-NLS-1$
    result.append(style);
    result.append(')');
    return result.toString();
}

//
// Reconcile methods
//

public void reconcileAttributes(Element changedElement)
{
    setStyle(SOAPConstants.getAttribute(changedElement, SOAPConstants.STYLE_ATTRIBUTE));
    setTransportURI(SOAPConstants.getAttribute(changedElement, SOAPConstants.TRANSPORT_ATTRIBUTE));
    reconcileReferences(false);
}

```

```

}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_BINDING__STYLE)
            niceSetAttribute(theElement, SOAPConstants.STYLE_ATTRIBUTE, getStyle());
        if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_BINDING__TRANSPORT_URI)
            niceSetAttribute(theElement, SOAPConstants.TRANSPORT_ATTRIBUTE, getTransportURI());
    }
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(SOAPConstants.SOAP_NAMESPACE_URI,
SOAPConstants.BINDING_ELEMENT_TAG);
    return elementType;
}
} //SOAPBindingImpl
/*****
* Copyright (c) 2000, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.soap.internal.impl;

import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EDataType;
import org.eclipse.emf.ecore.EObject;
import org.eclipse.emf.ecore.EPackage;
import org.eclipse.emf.ecore.impl.EFactoryImpl;

```

```

import org.eclipse.emf.ecore.plugin.EcorePlugin;
import org.eclipse.wst.wsdl.binding.soap.*;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model <b>Factory</b>.
 * <!-- end-user-doc -->
 * @generated
 */
public class SOAPFactoryImpl extends EFactoryImpl implements SOAPFactory
{
    /**
     * Creates the default factory implementation.
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    public static SOAPFactory init()
    {
        try
        {
            SOAPFactory theSOAPFactory =
(SOAPFactory)EPackage.Registry.INSTANCE.getEFactory("http://www.eclipse.org/wsdl/2003/SOAP"); //$NON-
NLS-1$
            if (theSOAPFactory != null)
            {
                return theSOAPFactory;
            }
        }
        catch (Exception exception)
        {
            EcorePlugin.INSTANCE.log(exception);
        }
        return new SOAPFactoryImpl();
    }

    /**
     * Creates an instance of the factory.
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    public SOAPFactoryImpl()
    {
        super();
    }
}

```



```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EObject create(EClass eClass)
{
    switch (eClass.getClassifierID())
    {
        case SOAPPackage.SOAP_BINDING:
            return createSOAPBinding();
        case SOAPPackage.SOAP_BODY:
            return createSOAPBody();
        case SOAPPackage.SOAP_HEADER_BASE:
            return createSOAPHeaderBase();
        case SOAPPackage.SOAP_FAULT:
            return createSOAPFault();
        case SOAPPackage.SOAP_OPERATION:
            return createSOAPOperation();
        case SOAPPackage.SOAP_ADDRESS:
            return createSOAPAddress();
        case SOAPPackage.SOAP_HEADER_FAULT:
            return createSOAPHeaderFault();
        case SOAPPackage.SOAP_HEADER:
            return createSOAPHeader();
        default:
            throw new IllegalArgumentException("The class " + eClass.getName() + " is not a valid classifier"); //$NON-
NLS-1$ //$NON-NLS-2$
    }
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object createFromString(EDatatype eDataType, String initialValue)
{
    switch (eDataType.getClassifierID())
    {
        case SOAPPackage.ISTRING:
            return createIStringFromString(eDataType, initialValue);
        default:
            throw new IllegalArgumentException("The datatype " + eDataType.getName() + " is not a valid classifier");
//$NON-NLS-1$ //$NON-NLS-2$
    }
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String convertToString(EDatatype eDataType, Object instanceValue)
{
    switch (eDataType.getClassifierID())
    {
        case SOAPPackage.ISTRING:
            return convertIStringToString(eDataType, instanceValue);
        default:
            throw new IllegalArgumentException("The datatype '" + eDataType.getName() + "' is not a valid classifier");
    }
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public SOAPBinding createSOAPBinding()
{
    SOAPBindingImpl soapBinding = new SOAPBindingImpl();
    return soapBinding;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public SOAPBody createSOAPBody()
{
    SOAPBodyImpl soapBody = new SOAPBodyImpl();
    return soapBody;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public SOAPHeaderBase createSOAPHeaderBase()
{
    SOAPHeaderBaseImpl soapHeaderBase = new SOAPHeaderBaseImpl();
    return soapHeaderBase;
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public SOAPFault createSOAPFault()
{
    SOAPFaultImpl soapFault = new SOAPFaultImpl();
    return soapFault;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public SOAPOperation createSOAPOperation()
{
    SOAPOperationImpl soapOperation = new SOAPOperationImpl();
    return soapOperation;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public SOAPAddress createSOAPAddress()
{
    SOAPAddressImpl soapAddress = new SOAPAddressImpl();
    return soapAddress;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public SOAPHeaderFault createSOAPHeaderFault()
{
    SOAPHeaderFaultImpl soapHeaderFault = new SOAPHeaderFaultImpl();
    return soapHeaderFault;
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public SOAPHeader createSOAPHeader()
{
    SOAPHeaderImpl soapHeader = new SOAPHeaderImpl();
    return soapHeader;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String createIStringFromString(EDataType eDataType, String initialValue)
{
    return (String)super.createFromString(eDataType, initialValue);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String convertIStringToString(EDataType eDataType, Object instanceValue)
{
    return super.convertToString(eDataType, instanceValue);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public SOAPPackage getSOAPPackage()
{
    return (SOAPPackage)getEPackage();
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @deprecated
* @generated
*/
public static SOAPPackage getPackage()
{
    return SOAPPackage.eINSTANCE;
}

```

```

}
} //SOAPFactoryImpl
/*****
* Copyright (c) 2000, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.soap.internal.impl;

import java.util.Collection;
import java.util.Iterator;
import java.util.List;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EReference;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.emf.ecore.util.EDataTypeUniqueEList;
import org.eclipse.emf.ecore.util.EObjectResolvingEList;
import org.eclipse.wst.wsdl.BindingFault;
import org.eclipse.wst.wsdl.BindingInput;
import org.eclipse.wst.wsdl.BindingOutput;
import org.eclipse.wst.wsdl.Message;
import org.eclipse.wst.wsdl.Part;
import org.eclipse.wst.wsdl.binding.soap.SOAPBody;
import org.eclipse.wst.wsdl.binding.soap.SOAPPackage;
import org.eclipse.wst.wsdl.binding.soap.internal.util.SOAPConstants;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;
import org.w3c.dom.Element;

import com.ibm.icu.util.StringTokenizer;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Body</b></em>'.
 * <!-- end-user-doc -->
 * <p>

```

```

* The following features are implemented:
* <ul>
* <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPBodyImpl#getUser <em>Use</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPBodyImpl#getNamespaceURI
<em>Namespace URI</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPBodyImpl#getEEncodingStyles
<em>EEncoding Styles</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPBodyImpl#getEParts <em>EParts</em>}</li>
* </ul>
* </p>

```

```

* @generated
*/

```

```

public class SOAPBodyImpl extends ExtensibilityElementImpl implements SOAPBody

```

```

{

```

```

/**

```

```

* This class is not intended to be serialized.
* serialVersionUID is assigned with 1L to avoid
* compiler warning messages.
*/

```

```

private static final long serialVersionUID = 1L;

```

```

/**

```

```

* The default value of the '{ @link #getUser() <em>Use</em>}' attribute.

```

```

* <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->

```

```

* @see #getUser()

```

```

* @generated

```

```

* @ordered

```

```

*/

```

```

protected static final String USE_EDEFAULT = null;

```

```

/**

```

```

* The cached value of the '{ @link #getUser() <em>Use</em>}' attribute.

```

```

* <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->

```

```

* @see #getUser()

```

```

* @generated

```

```

* @ordered

```

```

*/

```

```

protected String use = USE_EDEFAULT;

```

```

/**

```

```

* The default value of the '{ @link #getNamespaceURI() <em>Namespace URI</em>}' attribute.

```

```

* <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->

```

```

* @see #getNamespaceURI()

```

```

* @generated

```

```

* @ordered
*/
protected static final String NAMESPACE_URI_EDEFAULT = null;

/**
 * The cached value of the '{@link #getNamespaceURI() <em>Namespace URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getNamespaceURI()
 * @generated
 * @ordered
 */
protected String namespaceURI = NAMESPACE_URI_EDEFAULT;

/**
 * The cached value of the '{@link #getEEncodingStyles() <em>EEncoding Styles</em>}' attribute list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEEncodingStyles()
 * @generated
 * @ordered
 */
protected EList eEncodingStyles;

/**
 * The cached value of the '{@link #getEParts() <em>EParts</em>}' reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEParts()
 * @generated
 * @ordered
 */
protected EList eParts;

/**
 * The cached value of the '{@link #getParts() <em>Parts</em>}' reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getParts()
 * @generated NOT
 * @ordered
 */
protected List parts;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
protected SOAPBodyImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return SOAPPackage.Literals.SOAP_BODY;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getUse()
{
    return use;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setUse(String newUse)
{
    String oldUse = use;
    use = newUse;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_BODY__USE, oldUse, use));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getNamespaceURI()
{
    return namespaceURI;
}

```



```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setNamespaceURI(String newNamespaceURI)
{
    String oldNamespaceURI = namespaceURI;
    namespaceURI = newNamespaceURI;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_BODY__NAMESPACE_URI,
oldNamespaceURI, namespaceURI));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEEncodingStyles()
{
    if (eEncodingStyles == null)
    {
        eEncodingStyles = new EDataTypeUniqueEList(String.class, this,
SOAPPackage.SOAP_BODY__EENCODING_STYLES);
    }
    return eEncodingStyles;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEParts()
{
    if (eParts == null)
    {
        eParts = new EObjectResolvingEList(Part.class, this, SOAPPackage.SOAP_BODY__EPARTS);
    }
    return eParts;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT

```

```

*/
public void setEncodingStyles(List list)
{
    eEncodingStyles = (EList)list;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public List getEncodingStyles()
{
    return getEEncodingStyles();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setParts(List list)
{
    parts = list;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public List getParts()
{
    if (parts == null)
    {
        parts = new EObjectResolvingEList(Part.class, this, SOAPPackage.SOAP_BODY__EPARTS);
        return getImplicitParts();
    }

    if (parts.size() == 0)
    {
        return getImplicitParts();
    }

    return parts;
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_BODY__USE:
            return getUse();
        case SOAPPackage.SOAP_BODY__NAMESPACE_URI:
            return getNamespaceURI();
        case SOAPPackage.SOAP_BODY__EENCODING_STYLES:
            return getEEncodingStyles();
        case SOAPPackage.SOAP_BODY__EPARTS:
            return getEParts();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_BODY__USE:
            setUse((String)newValue);
            return;
        case SOAPPackage.SOAP_BODY__NAMESPACE_URI:
            setNamespaceURI((String)newValue);
            return;
        case SOAPPackage.SOAP_BODY__EENCODING_STYLES:
            getEEncodingStyles().clear();
            getEEncodingStyles().addAll((Collection)newValue);
            return;
        case SOAPPackage.SOAP_BODY__EPARTS:
            getEParts().clear();
            getEParts().addAll((Collection)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_BODY__USE:
            setUse(USE_EDEFAULT);
            return;
        case SOAPPackage.SOAP_BODY__NAMESPACE_URI:
            setNamespaceURI(NAMESPACE_URI_EDEFAULT);
            return;
        case SOAPPackage.SOAP_BODY__EENCODING_STYLES:
            getEEncodingStyles().clear();
            return;
        case SOAPPackage.SOAP_BODY__EPARTS:
            getEParts().clear();
            return;
    }
    super.eUnset(featureID);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_BODY__USE:
            return USE_EDEFAULT == null ? use != null : !USE_EDEFAULT.equals(use);
        case SOAPPackage.SOAP_BODY__NAMESPACE_URI:
            return NAMESPACE_URI_EDEFAULT == null ? namespaceURI != null :
!NAMESPACE_URI_EDEFAULT.equals(namespaceURI);
        case SOAPPackage.SOAP_BODY__EENCODING_STYLES:
            return eEncodingStyles != null && !eEncodingStyles.isEmpty();
        case SOAPPackage.SOAP_BODY__EPARTS:
            return eParts != null && !eParts.isEmpty();
    }
    return super.eIsSet(featureID);
}

/**
* <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (use: "); //$NON-NLS-1$
    result.append(use);
    result.append(", namespaceURI: "); //$NON-NLS-1$
    result.append(namespaceURI);
    result.append(", eEncodingStyles: "); //$NON-NLS-1$
    result.append(eEncodingStyles);
    result.append(')');
    return result.toString();
}

//
// Reconcile methods
//

public void reconcileAttributes(Element changedElement)
{
    setUse(SOAPConstants.getAttribute(changedElement, SOAPConstants.USE_ATTRIBUTE));
    setNamespaceURI(SOAPConstants.getAttribute(changedElement,
SOAPConstants.NAMESPACE_ATTRIBUTE));
    if (changedElement.hasAttribute(SOAPConstants.ENCODING_STYLE_ATTRIBUTE))
    {
        String encodingStyles = changedElement.getAttribute(SOAPConstants.ENCODING_STYLE_ATTRIBUTE);
        StringTokenizer tokenizer = new StringTokenizer(encodingStyles);
        while (tokenizer.hasMoreTokens())
            getEncodingStyles().add(tokenizer.nextToken());
    }
    else
    {
        getEncodingStyles().clear();
    }

    reconcileReferences(false);
}

public void reconcileReferences(boolean deep)
{
    if (element != null && element.hasAttribute(SOAPConstants.PARTS_ATTRIBUTE))
        // Synchronize 'parts' variable from element's attribute.
    {

```

```

Message message = getMessage();
if (message == null)
    return;

String partNames = element.getAttribute(SOAPConstants.PARTS_ATTRIBUTE);
StringTokenizer parser = new StringTokenizer(partNames, " ");
String partName = null;
Part newPart = null;
getParts().clear();
while (parser.hasMoreTokens())
{
    partName = parser.nextToken();
    newPart = (message != null) ? (Part)message.getPart(partName) : null;
    if (newPart != null)
        // Do not use getParts() here since it will return a list of
        // implicitly collected parts.
        parts.add(newPart);
}
}
super.reconcileReferences(deep);
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_BODY__USE)
            niceSetAttribute(theElement, SOAPConstants.USE_ATTRIBUTE, getUse());
        if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_BODY__NAMESPACE_URI)
            niceSetAttribute(theElement, SOAPConstants.NAMESPACE_ATTRIBUTE, getNamespaceURI());
        if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_BODY__ENCODING_STYLES)
        {
            List encodingStyleList = getEncodingStyles();
            String encodingStyles = "";
            Iterator iterator = encodingStyleList.iterator();
            while (iterator.hasNext())
            {
                if (encodingStyles.equals("")) // first iteration
                    encodingStyles += (String)iterator.next();
            }
        }
    }
}

```

```

else
    encodingStyles += " " + (String)iterator.next();
}
if (!encodingStyles.equals(""))
    niceSetAttribute(theElement, SOAPConstants.ENCODING_STYLE_ATTRIBUTE, encodingStyles);
}
}
}

protected void changeReference(EReference eReference)
{
    if (isReconciling)
        return;

    super.changeReference(eReference);
    //
    // Update the element's "parts" attribute value.
    //
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eReference == null || eReference == SOAPPackage.Literals.SOAP_BODY__EPARTS)
        {
            // Used to be Bugzilla 108176, now it is Bugzilla 137990

            String partsAttributeValue = null;

            // Do not use getParts() as it will return the list of implicit message
            // parts.

            if (parts != null && !parts.isEmpty())
            {
                StringBuffer partNamesBuffer = new StringBuffer();
                Iterator iterator = parts.iterator();

                while (iterator.hasNext())
                {
                    Part part = (Part)iterator.next();
                    String partName = part.getName();

                    partNamesBuffer.append(partName);

                    if (iterator.hasNext())
                    {
                        partNamesBuffer.append(" "); //$NON-NLS-1$
                    }
                }
            }
        }
    }
}

```

```

        partsAttributeValue = partNamesBuffer.toString();
    }

    niceSetAttribute(theElement, SOAPConstants.PARTS_ATTRIBUTE, partsAttributeValue);
}
}
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(SOAPConstants.SOAP_NAMESPACE_URI,
SOAPConstants.BODY_ELEMENT_TAG);
    return elementType;
}

private List getImplicitParts()
{
    List implicitParts = new java.util.Vector();
    Message message = getMessage();
    if (message != null && message.getEParts().size() > 0)
    {
        implicitParts.addAll(message.getEParts());
    }
    return implicitParts;
}

private Message getMessage()
{
    Message message = null;

    if (eContainer() instanceof BindingInput)
    {
        if (((BindingInput)eContainer()).getEInput() != null)
            message = ((BindingInput)eContainer()).getEInput().getEMessage();
    }
    if (eContainer() instanceof BindingOutput)
    {
        if (((BindingOutput)eContainer()).getEOutput() != null)
            message = ((BindingOutput)eContainer()).getEOutput().getEMessage();
    }
    if (eContainer() instanceof BindingFault)
    {
        if (((BindingFault)eContainer()).getEFault() != null)
            message = ((BindingFault)eContainer()).getEFault().getEMessage();
    }
    return message;
}
}

```



```

} //SOAPBodyImpl
/*****
* Copyright (c) 2000, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.soap.internal.impl;

```

```

import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EDataType;
import org.eclipse.emf.ecore.EOperation;
import org.eclipse.emf.ecore.EPackage;
import org.eclipse.emf.ecore.EReference;
import org.eclipse.emf.ecore.impl.ERPackageImpl;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.binding.soap.SOAPAddress;
import org.eclipse.wst.wsdl.binding.soap.SOAPBinding;
import org.eclipse.wst.wsdl.binding.soap.SOAPBody;
import org.eclipse.wst.wsdl.binding.soap.SOAPFactory;
import org.eclipse.wst.wsdl.binding.soap.SOAPFault;
import org.eclipse.wst.wsdl.binding.soap.SOAPHeader;
import org.eclipse.wst.wsdl.binding.soap.SOAPHeaderBase;
import org.eclipse.wst.wsdl.binding.soap.SOAPHeaderFault;
import org.eclipse.wst.wsdl.binding.soap.SOAPOperation;
import org.eclipse.wst.wsdl.binding.soap.SOAPPackage;

```

```

/**
 * <!-- begin-user-doc -->
 * An implementation of the model <b>Package</b>.
 * <!-- end-user-doc -->
 * @generated
 */
public class SOAPPackageImpl extends ERPackageImpl implements SOAPPackage
{
/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
}

```

```

private EClass soapBindingEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass soapBodyEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass soapHeaderBaseEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass soapFaultEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass soapOperationEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass soapAddressEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass soapHeaderFaultEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
private EClass soapHeaderEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass isoapBindingEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass isoapAddressEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass isoapBodyEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass isoapFaultEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass isoapOperationEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass isoapHeaderFaultEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated
*/
private EClass isoapHeaderEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EDataType iStringEDataType = null;

/**
 * Creates an instance of the model <b>Package</b>, registered with
 * { @link org.eclipse.emf.ecore.EPackage.Registry EPackage.Registry } by the package
 * package URI value.
 * <p>Note: the correct way to create the package is via the static
 * factory method { @link #init init() }, which also performs
 * initialization of the package, or returns the registered package,
 * if one already exists.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see org.eclipse.emf.ecore.EPackage.Registry
 * @see org.eclipse.wst.wsdl.binding.soap.SOAPPackage#eNS_URI
 * @see #init()
 * @generated
 */
private SOAPPackageImpl()
{
    super(eNS_URI, SOAPFactory.eINSTANCE);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private static boolean isInitiated = false;

/**
 * Creates, registers, and initializes the <b>Package</b> for this
 * model, and for any others upon which it depends. Simple
 * dependencies are satisfied by calling this method on all
 * dependent packages before doing anything else. This method drives
 * initialization for interdependent packages directly, in parallel
 * with this package, itself.
 * <p>Of this package and its interdependencies, all packages which
 * have not yet been registered by their URI values are first created
 * and registered. The packages are then initialized in two steps:

```

```

* meta-model objects for all of the packages are created before any
* are initialized, since one package's meta-model objects may refer to
* those of another.
* <p>Invocation of this method will not affect any packages that have
* already been initialized.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #eNS_URI
* @see #createPackageContents()
* @see #initializePackageContents()
* @generated
*/
public static SOAPPackage init()
{
    if (isInited)
        return (SOAPPackage)EPackage.Registry.INSTANCE.getEPackage(SOAPPackage.eNS_URI);

    // Obtain or create and register package
    SOAPPackageImpl theSOAPPackage =
(SOAPPackageImpl)(EPackage.Registry.INSTANCE.getEPackage(eNS_URI) instanceof SOAPPackageImpl
    ? EPackage.Registry.INSTANCE.getEPackage(eNS_URI) : new SOAPPackageImpl());

    isInited = true;

    // Initialize simple dependencies
    WSDLPackage.eINSTANCE.eClass();

    // Create package meta-data objects
    theSOAPPackage.createPackageContents();

    // Initialize created meta-data
    theSOAPPackage.initializePackageContents();

    // Mark meta-data to indicate it can't be changed
    theSOAPPackage.freeze();

    return theSOAPPackage;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getSOAPBinding()
{
    return soapBindingEClass;
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPBinding_TransportURI()
{
    return (EAttribute)soapBindingEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPBinding_Style()
{
    return (EAttribute)soapBindingEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getSOAPBody()
{
    return soapBodyEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPBody_Use()
{
    return (EAttribute)soapBodyEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPBody_NamespaceURI()
{

```

```

    return (EAttribute)soapBodyEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPBody_EEncodingStyles()
{
    return (EAttribute)soapBodyEClass.getEStructuralFeatures().get(2);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getSOAPBody_EParts()
{
    return (EReference)soapBodyEClass.getEStructuralFeatures().get(3);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getSOAPHeaderBase()
{
    return soapHeaderBaseEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPHeaderBase_Use()
{
    return (EAttribute)soapHeaderBaseEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public EAttribute getSOAPHeaderBase_NamespaceURI()
{
    return (EAttribute)soapHeaderBaseEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPHeaderBase_EEncodingStyles()
{
    return (EAttribute)soapHeaderBaseEClass.getEStructuralFeatures().get(2);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPHeaderBase_Message()
{
    return (EAttribute)soapHeaderBaseEClass.getEStructuralFeatures().get(3);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPHeaderBase_Part()
{
    return (EAttribute)soapHeaderBaseEClass.getEStructuralFeatures().get(4);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getSOAPHeaderBase_EMessage()
{
    return (EReference)soapHeaderBaseEClass.getEStructuralFeatures().get(5);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```



```

* @generated
*/
public EReference getSOAPHeaderBase_EPart()
{
    return (EReference)soapHeaderBaseEClass.getEStructuralFeatures().get(6);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getSOAPFault()
{
    return soapFaultEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPFault_Use()
{
    return (EAttribute)soapFaultEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPFault_NamespaceURI()
{
    return (EAttribute)soapFaultEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPFault_EEncodingStyles()
{
    return (EAttribute)soapFaultEClass.getEStructuralFeatures().get(2);
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EAttribute getSOAPFault_Name()
{
    return (EAttribute)soapFaultEClass.getEStructuralFeatures().get(3);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getSOAPOperation()
{
    return soapOperationEClass;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EAttribute getSOAPOperation_SoapActionURI()
{
    return (EAttribute)soapOperationEClass.getEStructuralFeatures().get(0);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EAttribute getSOAPOperation_Style()
{
    return (EAttribute)soapOperationEClass.getEStructuralFeatures().get(1);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getSOAPAddress()
{
    return soapAddressEClass;
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getSOAPAddress_LocationURI()
{
    return (EAttribute)soapAddressEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getSOAPHeaderFault()
{
    return soapHeaderFaultEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getSOAPHeader()
{
    return soapHeaderEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getSOAPHeader_HeaderFaults()
{
    return (EReference)soapHeaderEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getISOAPBinding()
{

```

```

    return isoapBindingEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getISOAPAddress()
{
    return isoapAddressEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getISOAPBody()
{
    return isoapBodyEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getISOAPFault()
{
    return isoapFaultEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getISOAPOperation()
{
    return isoapOperationEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public EClass getISOAPHeaderFault()
{
    return isoapHeaderFaultEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getISOAPHeader()
{
    return isoapHeaderEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EDataType getIString()
{
    return iStringEDataType;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public SOAPFactory getSOAPFactory()
{
    return (SOAPFactory)getEFactoryInstance();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private boolean isCreated = false;

/**
 * Creates the meta-model objects for the package. This method is
 * guarded to have no affect on any invocation but its first.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public void createPackageContents()
{
    if (isCreated)
        return;
    isCreated = true;

    // Create classes and their features
    soapBindingEClass = createEClass(SOAP_BINDING);
    createEAttribute(soapBindingEClass, SOAP_BINDING__TRANSPORT_URI);
    createEAttribute(soapBindingEClass, SOAP_BINDING__STYLE);

    soapBodyEClass = createEClass(SOAP_BODY);
    createEAttribute(soapBodyEClass, SOAP_BODY__USE);
    createEAttribute(soapBodyEClass, SOAP_BODY__NAMESPACE_URI);
    createEAttribute(soapBodyEClass, SOAP_BODY__EENCODING_STYLES);
    createEReference(soapBodyEClass, SOAP_BODY__EPARTS);

    soapHeaderBaseEClass = createEClass(SOAP_HEADER_BASE);
    createEAttribute(soapHeaderBaseEClass, SOAP_HEADER_BASE__USE);
    createEAttribute(soapHeaderBaseEClass, SOAP_HEADER_BASE__NAMESPACE_URI);
    createEAttribute(soapHeaderBaseEClass, SOAP_HEADER_BASE__EENCODING_STYLES);
    createEAttribute(soapHeaderBaseEClass, SOAP_HEADER_BASE__MESSAGE);
    createEAttribute(soapHeaderBaseEClass, SOAP_HEADER_BASE__PART);
    createEReference(soapHeaderBaseEClass, SOAP_HEADER_BASE__EMESSAGE);
    createEReference(soapHeaderBaseEClass, SOAP_HEADER_BASE__EPART);

    soapFaultEClass = createEClass(SOAP_FAULT);
    createEAttribute(soapFaultEClass, SOAP_FAULT__USE);
    createEAttribute(soapFaultEClass, SOAP_FAULT__NAMESPACE_URI);
    createEAttribute(soapFaultEClass, SOAP_FAULT__EENCODING_STYLES);
    createEAttribute(soapFaultEClass, SOAP_FAULT__NAME);

    soapOperationEClass = createEClass(SOAP_OPERATION);
    createEAttribute(soapOperationEClass, SOAP_OPERATION__SOAP_ACTION_URI);
    createEAttribute(soapOperationEClass, SOAP_OPERATION__STYLE);

    soapAddressEClass = createEClass(SOAP_ADDRESS);
    createEAttribute(soapAddressEClass, SOAP_ADDRESS__LOCATION_URI);

    soapHeaderFaultEClass = createEClass(SOAP_HEADER_FAULT);

    soapHeaderEClass = createEClass(SOAP_HEADER);
    createEReference(soapHeaderEClass, SOAP_HEADER__HEADER_FAULTS);

    isoapBindingEClass = createEClass(ISOAP_BINDING);

    isoapAddressEClass = createEClass(ISOAP_ADDRESS);

```

```

isoapBodyEClass = createEClass(ISOAP_BODY);

isoapFaultEClass = createEClass(ISOAP_FAULT);

isoapOperationEClass = createEClass(ISOAP_OPERATION);

isoapHeaderFaultEClass = createEClass(ISOAP_HEADER_FAULT);

isoapHeaderEClass = createEClass(ISOAP_HEADER);

// Create data types
iStringEDataType = createEDataType(ISTRING);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private boolean isInitialized = false;

/**
 * Complete the initialization of the package and its meta-model. This
 * method is guarded to have no affect on any invocation but its first.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void initializePackageContents()
{
    if (isInitialized)
        return;
    isInitialized = true;

    // Initialize package
    setName(eNAME);
    setNsPrefix(eNS_PREFIX);
    setNsURI(eNS_URI);

    // Obtain other dependent packages
    WSDLPackage theWSDLPackage =
(WSDLPackage)EPackage.Registry.INSTANCE.getEPackage(WSDLPackage.eNS_URI);

    // Add supertypes to classes
    soapBindingEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
    soapBindingEClass.getESuperTypes().add(this.getISOAPBinding());
    soapBodyEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());

```

```

soapBodyEClass.getESuperTypes().add(this.getISOAPBody());
soapHeaderBaseEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
soapFaultEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
soapFaultEClass.getESuperTypes().add(this.getISOAPFault());
soapOperationEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
soapOperationEClass.getESuperTypes().add(this.getISOAPOperation());
soapAddressEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
soapAddressEClass.getESuperTypes().add(this.getISOAPAddress());
soapHeaderFaultEClass.getESuperTypes().add(this.getSOAPHeaderBase());
soapHeaderFaultEClass.getESuperTypes().add(this.getISOAPHeaderFault());
soapHeaderEClass.getESuperTypes().add(this.getSOAPHeaderBase());
soapHeaderEClass.getESuperTypes().add(this.getISOAPHeader());

// Initialize classes and features; add operations and parameters
initEClass(soapBindingEClass, SOAPBinding.class, "SOAPBinding", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEAttribute(
    getSOAPBinding_TransportURI(),
   .ecorePackage.getEString(),
    "transportURI", null, 0, 1, SOAPBinding.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEAttribute(
    getSOAPBinding_Style(),
   .ecorePackage.getEString(),
    "style", null, 0, 1, SOAPBinding.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

    initEClass(soapBodyEClass, SOAPBody.class, "SOAPBody", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEAttribute(
    getSOAPBody_Use(),
   .ecorePackage.getEString(),
    "use", null, 0, 1, SOAPBody.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEAttribute(
    getSOAPBody_NamespaceURI(),
   .ecorePackage.getEString(),
    "namespaceURI", null, 0, 1, SOAPBody.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEAttribute(
    getSOAPBody_EEncodingStyles(),
    this.getIString(),
    "eEncodingStyles", null, 0, -1, SOAPBody.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEReference(
    getSOAPBody_EParts(),
    theWSDLPackage.getPart(),
    null,

```



```

    "eParts", null, 0, -1, SOAPBody.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
    //$NON-NLS-1$

    initEClass(soapHeaderBaseEClass, SOAPHeaderBase.class, "SOAPHeaderBase", !IS_ABSTRACT,
    !IS_INTERFACE, IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getSOAPHeaderBase_Use(),
       .ecorePackage.getEString(),
        "use", null, 0, 1, SOAPHeaderBase.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getSOAPHeaderBase_NamespaceURI(),
       .ecorePackage.getEString(),
        "namespaceURI", null, 0, 1, SOAPHeaderBase.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getSOAPHeaderBase_EEncodingStyles(),
        this.getIString(),
        "eEncodingStyles", null, 0, -1, SOAPHeaderBase.class, !IS_TRANSIENT, !IS_VOLATILE,
    IS_CHANGEABLE, !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getSOAPHeaderBase_Message(),
        theWSDLPackage.getQName(),
        "message", null, 0, 1, SOAPHeaderBase.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getSOAPHeaderBase_Part(),
       .ecorePackage.getEString(),
        "part", null, 0, 1, SOAPHeaderBase.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEReference(
        getSOAPHeaderBase_EMessage(),
        theWSDLPackage.getMessage(),
        null,
        "eMessage", null, 1, 1, SOAPHeaderBase.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
    //$NON-NLS-1$
    initEReference(
        getSOAPHeaderBase_EPart(),
        theWSDLPackage.getPart(),
        null,
        "ePart", null, 1, 1, SOAPHeaderBase.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
    //$NON-NLS-1$

    addEOperation(soapHeaderBaseEClass, theWSDLPackage.getList(), "getEncodingStyles", 0, 1); //$NON-NLS-
    1$

```

```

EOperation op = addEOperation(soapHeaderBaseEClass, null, "setEncodingStyles"); //$NON-NLS-1$
addEParameter(op, theWSDLPackage.getList(), "encodingStyles", 0, 1); //$NON-NLS-1$

initEClass(soapFaultEClass, SOAPFault.class, "SOAPFault", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEAttribute(
    getSOAPFault_Use(),
    ecorePackage.getEString(),
    "use", null, 0, 1, SOAPFault.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEAttribute(
    getSOAPFault_NamespaceURI(),
    ecorePackage.getEString(),
    "namespaceURI", null, 0, 1, SOAPFault.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEAttribute(
    getSOAPFault_EEncodingStyles(),
    this.getIString(),
    "eEncodingStyles", null, 0, -1, SOAPFault.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEAttribute(
    getSOAPFault_Name(),
    ecorePackage.getEString(),
    "name", null, 0, 1, SOAPFault.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

initEClass(soapOperationEClass, SOAPOperation.class, "SOAPOperation", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEAttribute(
    getSOAPOperation_SoapActionURI(),
    ecorePackage.getEString(),
    "soapActionURI", null, 0, 1, SOAPOperation.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEAttribute(
    getSOAPOperation_Style(),
    ecorePackage.getEString(),
    "style", null, 0, 1, SOAPOperation.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

initEClass(soapAddressEClass, SOAPAddress.class, "SOAPAddress", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEAttribute(
    getSOAPAddress_LocationURI(),
    ecorePackage.getEString(),
    "locationURI", null, 0, 1, SOAPAddress.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

```

```

initEClass(soapHeaderFaultEClass, SOAPHeaderFault.class, "SOAPHeaderFault", !IS_ABSTRACT,
!IS_INTERFACE, IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

initEClass(soapHeaderEClass, SOAPHeader.class, "SOAPHeader", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEReference(
    getSOAPHeader_HeaderFaults(),
    this.getSOAPHeaderFault(),
    null,
    "headerFaults", null, 0, -1, SOAPHeader.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$

initEClass(
    isoapBindingEClass,
    javax.wsdl.extensions.soap.SOAPBinding.class,
    "ISOAPBinding", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-
1$

initEClass(
    isoapAddressEClass,
    javax.wsdl.extensions.soap.SOAPAddress.class,
    "ISOAPAddress", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-
1$

initEClass(
    isoapBodyEClass,
    javax.wsdl.extensions.soap.SOAPBody.class,
    "ISOAPBody", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

addEOperation(isoapBodyEClass, theWSDLPackage.getList(), "getEncodingStyles", 0, 1); //$NON-NLS-1$

op = addEOperation(isoapBodyEClass, null, "setEncodingStyles"); //$NON-NLS-1$
addEParameter(op, theWSDLPackage.getList(), "encodingStyles", 0, 1); //$NON-NLS-1$

addEOperation(isoapBodyEClass, theWSDLPackage.getList(), "getParts", 0, 1); //$NON-NLS-1$

op = addEOperation(isoapBodyEClass, null, "setParts"); //$NON-NLS-1$
addEParameter(op, theWSDLPackage.getList(), "parts", 0, 1); //$NON-NLS-1$

initEClass(
    isoapFaultEClass,
    javax.wsdl.extensions.soap.SOAPFault.class,
    "ISOAPFault", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

initEClass(
    isoapOperationEClass,
    javax.wsdl.extensions.soap.SOAPOperation.class,

```

```

"ISOAPOperation", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-
NLS-1$

initEClass(
    isoapHeaderFaultEClass,
    javax.wsdl.extensions.soap.SOAPHeaderFault.class,
    "ISOAPHeaderFault", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-
NLS-1$

initEClass(
    isoapHeaderEClass,
    javax.wsdl.extensions.soap.SOAPHeader.class,
    "ISOAPHeader", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-
1$

addEOperation(isoapHeaderEClass, theWSDLPackage.getIList(), "getSOAPHeaderFaults", 0, 1); //$NON-NLS-
1$

op = addEOperation(isoapHeaderEClass, null, "addSOAPHeaderFault"); //$NON-NLS-1$
addEParameter(op, this.getISOAPHeaderFault(), "soapHeaderFault", 0, 1); //$NON-NLS-1$

// Initialize data types
initEDataType(iStringEDataType, String.class, "IString", IS_SERIALIZABLE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

// Create resource
createResource(eNS_URI);
}
} //SOAPPackageImpl
/*****
* Copyright (c) 2000, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.soap.internal.impl;

import javax.xml.namespace.QName;

import org.eclipse.emf.ecore.EClass;
import org.eclipse.wst.wsdl.binding.soap.SOAPHeaderFault;
import org.eclipse.wst.wsdl.binding.soap.SOAPPackage;
import org.eclipse.wst.wsdl.binding.soap.internal.util.SOAPConstants;

```

```

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Header Fault</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * </p>
 *
 * @generated
 */
public class SOAPHeaderFaultImpl extends SOAPHeaderBaseImpl implements SOAPHeaderFault
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected SOAPHeaderFaultImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return SOAPPackage.Literals.SOAP_HEADER_FAULT;
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(SOAPConstants.SOAP_NAMESPACE_URI,
SOAPConstants.HEADER_FAULT_ELEMENT_TAG);
    return elementType;
}

```

```

} //SOAPHeaderFaultImpl
/*****
* Copyright (c) 2000, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.soap.internal.impl;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsdl.binding.soap.SOAPAddress;
import org.eclipse.wst.wsdl.binding.soap.SOAPPackage;
import org.eclipse.wst.wsdl.binding.soap.internal.util.SOAPConstants;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Address</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{@link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPAddressImpl#getLocationURI <em>Location
 * URI</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class SOAPAddressImpl extends ExtensibilityElementImpl implements SOAPAddress
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */

```

```

private static final long serialVersionUID = 1L;

/**
 * The default value of the '{@link #getLocationURI() <em>Location URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getLocationURI()
 * @generated
 * @ordered
 */
protected static final String LOCATION_URI_EDEFAULT = null;

/**
 * The cached value of the '{@link #getLocationURI() <em>Location URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getLocationURI()
 * @generated
 * @ordered
 */
protected String locationURI = LOCATION_URI_EDEFAULT;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected SOAPAddressImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return SOAPPackage.Literals.SOAP_ADDRESS;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getLocationURI()

```

```

{
    return locationURI;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setLocationURI(String newLocationURI)
{
    String oldLocationURI = locationURI;
    locationURI = newLocationURI;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_ADDRESS__LOCATION_URI,
oldLocationURI, locationURI));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_ADDRESS__LOCATION_URI:
            return getLocationURI();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_ADDRESS__LOCATION_URI:
            setLocationURI((String)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

```



```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_ADDRESS__LOCATION_URI:
            setLocationURI(LOCATION_URI_EDEFAULT);
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_ADDRESS__LOCATION_URI:
            return LOCATION_URI_EDEFAULT == null ? locationURI != null :
!LOCATION_URI_EDEFAULT.equals(locationURI);
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (locationURI: "); //$NON-NLS-1$
    result.append(locationURI);
    result.append(')');
    return result.toString();
}

```

```

}

//
// Reconcile methods: DOM -> Model
//

public void reconcileAttributes(Element changedElement)
{
    setLocationURI(SOAPConstants.getAttribute(changedElement, SOAPConstants.LOCATION_ATTRIBUTE));
    reconcileReferences(false);
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_ADDRESS__LOCATION_URI)
            niceSetAttribute(theElement, SOAPConstants.LOCATION_ATTRIBUTE, getLocationURI());
    }
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(SOAPConstants.SOAP_NAMESPACE_URI,
SOAPConstants.ADDRESS_ELEMENT_TAG);
    return elementType;
}
} //SOAPAddressImpl
/*****
* Copyright (c) 2000, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/

```

```

package org.eclipse.wst.wsdl.binding.soap.internal.impl;

import java.util.Collection;
import java.util.Iterator;
import java.util.List;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.NotificationChain;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.util.EObjectContainmentEList;
import org.eclipse.emf.ecore.util.InternalEList;
import org.eclipse.wst.wsdl.binding.soap.SOAPFactory;
import org.eclipse.wst.wsdl.binding.soap.SOAPHeader;
import org.eclipse.wst.wsdl.binding.soap.SOAPHeaderFault;
import org.eclipse.wst.wsdl.binding.soap.SOAPPackage;
import org.eclipse.wst.wsdl.binding.soap.internal.util.SOAPConstants;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Header</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPHeaderImpl#getHeaderFaults <em>Header
 * Faults</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class SOAPHeaderImpl extends SOAPHeaderBaseImpl implements SOAPHeader
{
    /**
     * This class is not intended to be serialized.
     * serialVersionUID is assigned with 1L to avoid
     * compiler warning messages.
     */
    private static final long serialVersionUID = 1L;

    /**
     * The cached value of the '{ @link #getHeaderFaults() <em>Header Faults</em>}' containment reference list.

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getHeaderFaults()
* @generated
* @ordered
*/
protected EList headerFaults;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected SOAPHeaderImpl()
{
    super();
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected EClass eStaticClass()
{
    return SOAPPackage.Literals.SOAP_HEADER;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EList getHeaderFaults()
{
    if (headerFaults == null)
    {
        headerFaults = new EObjectContainmentEList(SOAPHeaderFault.class, this,
SOAPPackage.SOAP_HEADER__HEADER_FAULTS);
    }
    return headerFaults;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated NOT
*/

```

```

public List getSOAPHeaderFaults()
{
    return getHeaderFaults();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addSOAPHeaderFault(javax.wsdl.extensions.soap.SOAPHeaderFault soapHeaderFault)
{
    EList headerFaults = getHeaderFaults();
    headerFaults.add(soapHeaderFault);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_HEADER__HEADER_FAULTS:
            return ((InternalEList)getHeaderFaults()).basicRemove(otherEnd, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_HEADER__HEADER_FAULTS:
            return getHeaderFaults();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_HEADER__HEADER_FAULTS:
            getHeaderFaults().clear();
            getHeaderFaults().addAll((Collection)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_HEADER__HEADER_FAULTS:
            getHeaderFaults().clear();
            return;
    }
    super.eUnset(featureID);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_HEADER__HEADER_FAULTS:
            return headerFaults != null && !headerFaults.isEmpty();
    }
    return super.eIsSet(featureID);
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{

```

```

if (SOAPConstants.HEADER_FAULT_ELEMENT_TAG.equals(child.getLocalName()))
{
    SOAPHeaderFault fault = SOAPFactory.eINSTANCE.createSOAPHeaderFault();
    fault.setEnclosingDefinition(getEnclosingDefinition());
    fault.setElement(child);
    getHeaderFaults().add(fault);
}
}

protected void handleReconciliation(Collection remainingModelObjects)
{
    for (Iterator i = remainingModelObjects.iterator(); i.hasNext();)
    {
        remove(this, i.next());
    }
}

protected void remove(Object component, Object modelObject)
{
    SOAPHeader header = (SOAPHeader)component;
    if (modelObject instanceof SOAPHeaderFault)
    {
        header.getHeaderFaults().remove(modelObject);
    }
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(SOAPConstants.SOAP_NAMESPACE_URI,
SOAPConstants.HEADER_ELEMENT_TAG);
    return elementType;
}
} //SOAPHeaderImpl
/*****
* Copyright (c) 2000, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.soap.internal.impl;

import java.util.Collection;

```

```

import java.util.Iterator;
import java.util.List;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.emf.ecore.util.EDataTypeUniqueEList;
import org.eclipse.wst.wsdl.binding.soap.SOAPFault;
import org.eclipse.wst.wsdl.binding.soap.SOAPPackage;
import org.eclipse.wst.wsdl.binding.soap.internal.util.SOAPConstants;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Fault</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPFaultImpl#getUse <em>Use</em>}</li>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPFaultImpl#getNameSpaceURI
 * <em>Namespace URI</em>}</li>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPFaultImpl#getEEncodingStyles
 * <em>EEncoding Styles</em>}</li>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPFaultImpl#getName <em>Name</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class SOAPFaultImpl extends ExtensibilityElementImpl implements SOAPFault
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The default value of the '{ @link #getUse() <em>Use</em>}' attribute.
 * <!-- begin-user-doc -->

```



```

* <!-- end-user-doc -->
* @see #getUse()
* @generated
* @ordered
*/
protected static final String USE_EDEFAULT = null;

/**
* The cached value of the '{ @link #getUse() <em>Use</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getUse()
* @generated
* @ordered
*/
protected String use = USE_EDEFAULT;

/**
* The default value of the '{ @link #getNamespaceURI() <em>Namespace URI</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getNamespaceURI()
* @generated
* @ordered
*/
protected static final String NAMESPACE_URI_EDEFAULT = null;

/**
* The cached value of the '{ @link #getNamespaceURI() <em>Namespace URI</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getNamespaceURI()
* @generated
* @ordered
*/
protected String namespaceURI = NAMESPACE_URI_EDEFAULT;

/**
* The cached value of the '{ @link #getEEncodingStyles() <em>EEncoding Styles</em>}' attribute list.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getEEncodingStyles()
* @generated
* @ordered
*/
protected EList eEncodingStyles;

/**

```

```

* The default value of the '{@link #getName() <em>Name</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getName()
* @generated
* @ordered
*/
protected static final String NAME_EDEFAULT = null;

/**
* The cached value of the '{@link #getName() <em>Name</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getName()
* @generated
* @ordered
*/
protected String name = NAME_EDEFAULT;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected SOAPFaultImpl()
{
    super();
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected EClass eStaticClass()
{
    return SOAPPackage.Literals.SOAP_FAULT;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String getUse()
{
    return use;
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setUse(String newUse)
{
    String oldUse = use;
    use = newUse;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_FAULT__USE, oldUse, use));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getNamespaceURI()
{
    return namespaceURI;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setNamespaceURI(String newNamespaceURI)
{
    String oldNamespaceURI = namespaceURI;
    namespaceURI = newNamespaceURI;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_FAULT__NAMESPACE_URI,
oldNamespaceURI, namespaceURI));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEEncodingStyles()
{
    if (eEncodingStyles == null)
    {
        eEncodingStyles = new EDataTypeUniqueEList(String.class, this,

```

```

SOAPPackage.SOAP_FAULT__EENCODING_STYLES);
    }
    return eEncodingStyles;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getName()
{
    return name;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setName(String newName)
{
    String oldName = name;
    name = newName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_FAULT__NAME, oldName,
name));
}

/*
 * (non-Javadoc)
 * @see javax.wsdl.extensions.soap.SOAPFault#getEncodingStyles()
 */
public List getEncodingStyles()
{
    return getEEncodingStyles();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_FAULT__USE:

```

```

return getUse();
case SOAPPackage.SOAP_FAULT__NAMESPACE_URI:
return getNamespaceURI();
case SOAPPackage.SOAP_FAULT__EENCODING_STYLES:
return getEEncodingStyles();
case SOAPPackage.SOAP_FAULT__NAME:
return getName();
}
return super.eGet(featureID, resolve, coreType);
}

```

```
/**
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @generated
```

```
*/
```

```
public void eSet(int featureID, Object newValue)
```

```
{
```

```
switch (featureID)
```

```
{
```

```
case SOAPPackage.SOAP_FAULT__USE:
```

```
setUse((String)newValue);
```

```
return;
```

```
case SOAPPackage.SOAP_FAULT__NAMESPACE_URI:
```

```
setNamespaceURI((String)newValue);
```

```
return;
```

```
case SOAPPackage.SOAP_FAULT__EENCODING_STYLES:
```

```
getEEncodingStyles().clear();
```

```
getEEncodingStyles().addAll((Collection)newValue);
```

```
return;
```

```
case SOAPPackage.SOAP_FAULT__NAME:
```

```
setName((String)newValue);
```

```
return;
```

```
}
```

```
super.eSet(featureID, newValue);
```

```
}
```

```
/**
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @generated
```

```
*/
```

```
public void eUnset(int featureID)
```

```
{
```

```
switch (featureID)
```

```
{
```

```
case SOAPPackage.SOAP_FAULT__USE:
```

```
setUse(USE_EDEFAULT);
```

```

return;
case SOAPPackage.SOAP_FAULT__NAMESPACE_URI:
setNamespaceURI(NAMESPACE_URI_EDEFAULT);
return;
case SOAPPackage.SOAP_FAULT__EENCODING_STYLES:
getEEncodingStyles().clear();
return;
case SOAPPackage.SOAP_FAULT__NAME:
setName(NAME_EDEFAULT);
return;
}
super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
switch (featureID)
{
case SOAPPackage.SOAP_FAULT__USE:
return USE_EDEFAULT == null ? use != null : !USE_EDEFAULT.equals(use);
case SOAPPackage.SOAP_FAULT__NAMESPACE_URI:
return NAMESPACE_URI_EDEFAULT == null ? namespaceURI != null :
!NAMESPACE_URI_EDEFAULT.equals(namespaceURI);
case SOAPPackage.SOAP_FAULT__EENCODING_STYLES:
return eEncodingStyles != null && !eEncodingStyles.isEmpty();
case SOAPPackage.SOAP_FAULT__NAME:
return NAME_EDEFAULT == null ? name != null : !NAME_EDEFAULT.equals(name);
}
return super.eIsSet(featureID);
}

public void setEncodingStyles(List list)
{
eEncodingStyles = (EList)list;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{

```

```

if (eIsProxy())
    return super.toString();

StringBuffer result = new StringBuffer(super.toString());
result.append(" (use: "); //$NON-NLS-1$
result.append(use);
result.append(", namespaceURI: "); //$NON-NLS-1$
result.append(namespaceURI);
result.append(", eEncodingStyles: "); //$NON-NLS-1$
result.append(eEncodingStyles);
result.append(", name: "); //$NON-NLS-1$
result.append(name);
result.append(')');
return result.toString();
}

//
// Reconcile methods: DOM -> Model
//

public void reconcileAttributes(Element changedElement)
{
    setName(SOAPConstants.getAttribute(changedElement, SOAPConstants.NAME_ATTRIBUTE));
    setNamespaceURI(SOAPConstants.getAttribute(changedElement,
SOAPConstants.NAMESPACE_ATTRIBUTE));
    setUse(SOAPConstants.getAttribute(changedElement, SOAPConstants.USE_ATTRIBUTE));

    // TBD - handle encodingStyles

    reconcileReferences(false);
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_FAULT__NAMESPACE_URI)
            niceSetAttribute(theElement, SOAPConstants.NAMESPACE_ATTRIBUTE, getNamespaceURI());
        if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_FAULT__USE)

```

```

        niceSetAttribute(theElement, SOAPConstants.USE_ATTRIBUTE, getUse());
    if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_FAULT__EENCODING_STYLES)
    {
        List encodingStyleList = getEncodingStyles();
        String encodingStyles = "";
        Iterator iterator = encodingStyleList.iterator();
        while (iterator.hasNext())
        {
            if (encodingStyles.equals("")) // first iteration
                encodingStyles += (String)iterator.next();
            else
                encodingStyles += " " + (String)iterator.next();
        }
        if (!encodingStyles.equals(""))
            niceSetAttribute(theElement, SOAPConstants.ENCODING_STYLE_ATTRIBUTE, encodingStyles);
    } // TBD - Is this the proper way to handle encodingStyles
    if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_FAULT__NAME)
        niceSetAttribute(theElement, SOAPConstants.NAME_ATTRIBUTE, getName());
    }
}

```

```

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(SOAPConstants.SOAP_NAMESPACE_URI,
SOAPConstants.FAULT_ELEMENT_TAG);
    return elementType;
}

```

```

} //SOAPFaultImpl

```

```

/*****

```

```

* Copyright (c) 2000, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html

```

```

*

```

```

* Contributors:

```

```

* IBM Corporation - initial API and implementation

```

```

*****/

```

```

package org.eclipse.wst.wsdl.binding.soap.internal.impl;

```

```

import java.util.Collection;
import java.util.Iterator;
import java.util.List;

```

```

import javax.xml.namespace.QName;

```



```

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EReference;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.emf.ecore.util.EDataTypeUniqueEList;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.Message;
import org.eclipse.wst.wsdl.Part;
import org.eclipse.wst.wsdl.binding.soap.SOAPHeaderBase;
import org.eclipse.wst.wsdl.binding.soap.SOAPPackage;
import org.eclipse.wst.wsdl.binding.soap.internal.util.SOAPConstants;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;
import org.w3c.dom.Element;

import com.ibm.icu.util.StringTokenizer;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<b>Header Base</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPHeaderBaseImpl#getUserUse
 <em>Use</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPHeaderBaseImpl#getNameSpaceURI
 <em>Namespace URI</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPHeaderBaseImpl#getEEncodingStyles
 <em>EEncoding Styles</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPHeaderBaseImpl#getMessage
 <em>Message</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPHeaderBaseImpl#getPart
 <em>Part</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPHeaderBaseImpl#getMessage
 <em>EMessage</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.binding.soap.internal.impl.SOAPHeaderBaseImpl#getEPart
 <em>EPart</em> }</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class SOAPHeaderBaseImpl extends ExtensibilityElementImpl implements SOAPHeaderBase

```

```

{
/**
 * The default value of the '{@link #getUse() <em>Use</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getUse()
 * @generated
 * @ordered
 */
protected static final String USE_EDEFAULT = null;

/**
 * The cached value of the '{@link #getUse() <em>Use</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getUse()
 * @generated
 * @ordered
 */
protected String use = USE_EDEFAULT;

/**
 * The default value of the '{@link #getNamespaceURI() <em>Namespace URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getNamespaceURI()
 * @generated
 * @ordered
 */
protected static final String NAMESPACE_URI_EDEFAULT = null;

/**
 * The cached value of the '{@link #getNamespaceURI() <em>Namespace URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getNamespaceURI()
 * @generated
 * @ordered
 */
protected String namespaceURI = NAMESPACE_URI_EDEFAULT;

/**
 * The cached value of the '{@link #getEEncodingStyles() <em>EEncoding Styles</em>}' attribute list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEEncodingStyles()
 * @generated
 * @ordered

```

```

*/
protected EList eEncodingStyles;

/**
 * The default value of the '{@link #getMessage() <em>Message</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getMessage()
 * @generated
 * @ordered
 */
protected static final QName MESSAGE_EDEFAULT = null;

/**
 * The cached value of the '{@link #getMessage() <em>Message</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getMessage()
 * @generated
 * @ordered
 */
protected QName message = MESSAGE_EDEFAULT;

/**
 * The default value of the '{@link #getPart() <em>Part</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getPart()
 * @generated
 * @ordered
 */
protected static final String PART_EDEFAULT = null;

/**
 * The cached value of the '{@link #getPart() <em>Part</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getPart()
 * @generated
 * @ordered
 */
protected String part = PART_EDEFAULT;

/**
 * The cached value of the '{@link #getEMessage() <em>EMessage</em>}' reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEMessage()

```

```

* @generated
* @ordered
*/
protected Message eMessage;

/**
 * The cached value of the '{@link #getEPart() <em>EPart</em>}' reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEPart()
 * @generated
 * @ordered
 */
protected Part ePart;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected SOAPHeaderBaseImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return SOAPPackage.Literals.SOAP_HEADER_BASE;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getUse()
{
    return use;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated
*/
public void setUse(String newUse)
{
    String oldUse = use;
    use = newUse;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_HEADER_BASE__USE, oldUse,
use));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getNamespaceURI()
{
    return namespaceURI;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setNamespaceURI(String newNamespaceURI)
{
    String oldNamespaceURI = namespaceURI;
    namespaceURI = newNamespaceURI;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET,
SOAPPackage.SOAP_HEADER_BASE__NAMESPACE_URI, oldNamespaceURI, namespaceURI));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEEncodingStyles()
{
    if (eEncodingStyles == null)
    {
        eEncodingStyles = new EDataTypeUniqueEList(String.class, this,
SOAPPackage.SOAP_HEADER_BASE__EENCODING_STYLES);
    }
    return eEncodingStyles;
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Message getEMessage()
{
    if (eMessage != null && eMessage.eIsProxy())
    {
        InternalEObject oldEMessage = (InternalEObject)eMessage;
        eMessage = (Message)eResolveProxy(oldEMessage);
        if (eMessage != oldEMessage)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE,
SOAPPackage.SOAP_HEADER_BASE__EMESSAGE, oldEMessage, eMessage));
        }
    }
    return eMessage;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Message basicGetEMessage()
{
    return eMessage;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEMessage(Message newEMessage)
{
    Message oldEMessage = eMessage;
    eMessage = newEMessage;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_HEADER_BASE__EMESSAGE,
oldEMessage, eMessage));
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public Part getEPart()
{
    if (ePart != null && ePart.eIsProxy())
    {
        InternalEObject oldEPart = (InternalEObject)ePart;
        ePart = (Part)eResolveProxy(oldEPart);
        if (ePart != oldEPart)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE,
SOAPPackage.SOAP_HEADER_BASE__EPART, oldEPart, ePart));
        }
    }
    return ePart;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public Part basicGetEPart()
{
    return ePart;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setEPart(Part newEPart)
{
    Part oldEPart = ePart;
    ePart = newEPart;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_HEADER_BASE__EPART,
oldEPart, ePart));
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated

```

```

*/
public QName getMessage()
{
    return message;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setMessage(QName newMessage)
{
    QName oldMessage = message;
    message = newMessage;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_HEADER_BASE__MESSAGE,
oldMessage, message));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getPart()
{
    return part;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setPart(String newPart)
{
    String oldPart = part;
    part = newPart;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, SOAPPackage.SOAP_HEADER_BASE__PART,
oldPart, part));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT

```



```

*/
public List getEncodingStyles()
{
    return getEEncodingStyles();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setEncodingStyles(List encodingStyles)
{
    eEncodingStyles = (EList)encodingStyles;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_HEADER_BASE__USE:
            return getUse();
        case SOAPPackage.SOAP_HEADER_BASE__NAMESPACE_URI:
            return getNamespaceURI();
        case SOAPPackage.SOAP_HEADER_BASE__EENCODING_STYLES:
            return getEEncodingStyles();
        case SOAPPackage.SOAP_HEADER_BASE__MESSAGE:
            return getMessage();
        case SOAPPackage.SOAP_HEADER_BASE__PART:
            return getPart();
        case SOAPPackage.SOAP_HEADER_BASE__EMESSAGE:
            if (resolve)
                return getEMessage();
            return basicGetEMessage();
        case SOAPPackage.SOAP_HEADER_BASE__EPART:
            if (resolve)
                return getEPart();
            return basicGetEPart();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_HEADER_BASE__USE:
            setUse((String)newValue);
            return;
        case SOAPPackage.SOAP_HEADER_BASE__NAMESPACE_URI:
            setNamespaceURI((String)newValue);
            return;
        case SOAPPackage.SOAP_HEADER_BASE__ENCODING_STYLES:
            getEEncodingStyles().clear();
            getEEncodingStyles().addAll((Collection)newValue);
            return;
        case SOAPPackage.SOAP_HEADER_BASE__MESSAGE:
            setMessage((QName)newValue);
            return;
        case SOAPPackage.SOAP_HEADER_BASE__PART:
            setPart((String)newValue);
            return;
        case SOAPPackage.SOAP_HEADER_BASE__EMESSAGE:
            setEMessage((Message)newValue);
            return;
        case SOAPPackage.SOAP_HEADER_BASE__EPART:
            setEPart((Part)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

```

```

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case SOAPPackage.SOAP_HEADER_BASE__USE:
            setUse(USE_EDEFAULT);
            return;
        case SOAPPackage.SOAP_HEADER_BASE__NAMESPACE_URI:
            setNamespaceURI(NAMESPACE_URI_EDEFAULT);
    }
}

```

```

return;
case SOAPPackage.SOAP_HEADER_BASE__EENCODING_STYLES:
getEEncodingStyles().clear();
return;
case SOAPPackage.SOAP_HEADER_BASE__MESSAGE:
setMessage(MESSAGE_EDEFAULT);
return;
case SOAPPackage.SOAP_HEADER_BASE__PART:
setPart(PART_EDEFAULT);
return;
case SOAPPackage.SOAP_HEADER_BASE__EMESSAGE:
setEMessage((Message)null);
return;
case SOAPPackage.SOAP_HEADER_BASE__EPART:
setEPart((Part)null);
return;
}
super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
switch (featureID)
{
case SOAPPackage.SOAP_HEADER_BASE__USE:
return USE_EDEFAULT == null ? use != null : !USE_EDEFAULT.equals(use);
case SOAPPackage.SOAP_HEADER_BASE__NAMESPACE_URI:
return NAMESPACE_URI_EDEFAULT == null ? namespaceURI != null :
!NAMESPACE_URI_EDEFAULT.equals(namespaceURI);
case SOAPPackage.SOAP_HEADER_BASE__EENCODING_STYLES:
return eEncodingStyles != null && !eEncodingStyles.isEmpty();
case SOAPPackage.SOAP_HEADER_BASE__MESSAGE:
return MESSAGE_EDEFAULT == null ? message != null : !MESSAGE_EDEFAULT.equals(message);
case SOAPPackage.SOAP_HEADER_BASE__PART:
return PART_EDEFAULT == null ? part != null : !PART_EDEFAULT.equals(part);
case SOAPPackage.SOAP_HEADER_BASE__EMESSAGE:
return eMessage != null;
case SOAPPackage.SOAP_HEADER_BASE__EPART:
return ePart != null;
}
return super.eIsSet(featureID);
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (use: "); //$NON-NLS-1$
    result.append(use);
    result.append(", namespaceURI: "); //$NON-NLS-1$
    result.append(namespaceURI);
    result.append(", eEncodingStyles: "); //$NON-NLS-1$
    result.append(eEncodingStyles);
    result.append(", message: "); //$NON-NLS-1$
    result.append(message);
    result.append(", part: "); //$NON-NLS-1$
    result.append(part);
    result.append(')');
    return result.toString();
}

//
// Reconcile methods: DOM -> Model
//

public void reconcileAttributes(Element changedElement)
{
    setUse(SOAPConstants.getAttribute(changedElement, SOAPConstants.USE_ATTRIBUTE));
    setNamespaceURI(SOAPConstants.getAttribute(changedElement,
SOAPConstants.NAMESPACE_ATTRIBUTE));
    if (changedElement.hasAttribute(SOAPConstants.MESSAGE_ATTRIBUTE))
    {
        Definition definition = (Definition)getEnclosingDefinition();
        QName messageQName = createQName(definition,
changedElement.getAttribute(SOAPConstants.MESSAGE_ATTRIBUTE), changedElement);
        setMessage(messageQName);
    }
    else
    {
        setMessage(null);
    }
    setPart(SOAPConstants.getAttribute(changedElement, SOAPConstants.PART_ATTRIBUTE));
    if (changedElement.hasAttribute(SOAPConstants.ENCODING_STYLE_ATTRIBUTE))
    {

```

```

String encodingStyles = changedElement.getAttribute(SOAPConstants.ENCODING_STYLE_ATTRIBUTE);
StringTokenizer tokenizer = new StringTokenizer(encodingStyles);
while (tokenizer.hasMoreTokens())
    getEEncodingStyles().add(tokenizer.nextToken());
}
else
{
    getEEncodingStyles().clear();
}

reconcileReferences(false);
}

public void reconcileReferences(boolean deep)
{
    if (element != null)
    {
        Definition definition = (Definition)getEnclosingDefinition();
        Message message = (this.message != null) ? (Message)definition.getMessage(this.message) : null;
        if (message != null && message != getEMessage())
        {
            setEMessage(message);

            Part newPart = (Part)message.getPart(part);
            if (newPart != null && newPart != getEPart())
            {
                setEPart(newPart);
            }
        }
    }
    super.reconcileReferences(deep);
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_HEADER_BASE__USE)
            niceSetAttribute(theElement, SOAPConstants.USE_ATTRIBUTE, getUse());
    }
}

```

```

    if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_HEADER_BASE__NAMESPACE_URI)
        niceSetAttribute(theElement, SOAPConstants.NAMESPACE_ATTRIBUTE, getNamespaceURI());
    if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_HEADER_BASE__PART)
        niceSetAttribute(theElement, SOAPConstants.PART_ATTRIBUTE, getPart());
    if (eAttribute == null || eAttribute == SOAPPackage.Literals.SOAP_HEADER_BASE__MESSAGE)
    {
        String uriList = message != null ? message.getNamespaceURI() + "#" + message.getLocalPart() : null;
        niceSetAttributeURIValue(theElement, SOAPConstants.MESSAGE_ATTRIBUTE, uriList);
    }
    if (eAttribute == null || eAttribute ==
SOAPPackage.Literals.SOAP_HEADER_BASE__EENCODING_STYLES)
    {
        List encodingStyleList = getEEncodingStyles();
        String encodingStyles = "";
        Iterator iterator = encodingStyleList.iterator();
        while (iterator.hasNext())
        {
            if (encodingStyles.equals("")) // first iteration
                encodingStyles += (String)iterator.next();
            else
                encodingStyles += " " + (String)iterator.next();
        }
        if (!encodingStyles.equals(""))
            niceSetAttribute(theElement, SOAPConstants.ENCODING_STYLE_ATTRIBUTE, encodingStyles);
    }
}

protected void changeReference(EReference eReference)
{
    if (isReconciling)
        return;

    super.changeReference(eReference);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eReference == null || eReference == SOAPPackage.Literals.SOAP_HEADER_BASE__EMESSAGE)
        {
            Message message = getEMessage();
            if (message != null)
            {
                QName qName = message.getQName();
                niceSetAttributeURIValue(theElement, SOAPConstants.MESSAGE_ATTRIBUTE,
qName.getNamespaceURI() + "#" + qName.getLocalPart());
            }
        }
    }
}

```

```

    if (eReference == null || eReference == SOAPPackage.Literals.SOAP_HEADER_BASE__EPART)
    {
        Part part = getEPart();
        if (part != null)
        {
            String partName = part.getName();
            niceSetAttribute(theElement, SOAPConstants.PART_ATTRIBUTE, partName);
        }
    }
}
}
}
} //SOAPHeaderBaseImpl
/*****
* Copyright (c) 2001, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.http.internal.impl;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsdl.binding.http.HTTPAddress;
import org.eclipse.wst.wsdl.binding.http.HTTPPackage;
import org.eclipse.wst.wsdl.binding.http.internal.util.HTTPConstants;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Address</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.binding.http.internal.impl.HTTPAddressImpl#getLocationURI <em>Location
 * URI</em>}</li>
 * </ul>

```

```

* </p>
*
* @generated
*/
public class HTTPAddressImpl extends ExtensibilityElementImpl implements HTTPAddress
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The default value of the '{@link #getLocationURI() <em>Location URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getLocationURI()
 * @generated
 * @ordered
 */
protected static final String LOCATION_URI_EDEFAULT = null;

/**
 * The cached value of the '{@link #getLocationURI() <em>Location URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getLocationURI()
 * @generated
 * @ordered
 */
protected String locationURI = LOCATION_URI_EDEFAULT;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected HTTPAddressImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```



```

protected EClass eStaticClass()
{
    return HTTPPackage.Literals.HTTP_ADDRESS;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getLocationURI()
{
    return locationURI;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setLocationURI(String newLocationURI)
{
    String oldLocationURI = locationURI;
    locationURI = newLocationURI;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, HTTPPackage.HTTP_ADDRESS__LOCATION_URI,
oldLocationURI, locationURI));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case HTTPPackage.HTTP_ADDRESS__LOCATION_URI:
            return getLocationURI();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case HTTPPackage.HTTP_ADDRESS__LOCATION_URI:
            setLocationURI((String)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case HTTPPackage.HTTP_ADDRESS__LOCATION_URI:
            setLocationURI(LOCATION_URI_EDEFAULT);
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case HTTPPackage.HTTP_ADDRESS__LOCATION_URI:
            return LOCATION_URI_EDEFAULT == null ? locationURI != null :
!LOCATION_URI_EDEFAULT.equals(locationURI);
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (locationURI: "); //$NON-NLS-1$
    result.append(locationURI);
    result.append(')');
    return result.toString();
}

//
// Reconcile methods: DOM -> Model
//

public void reconcileAttributes(Element changedElement)
{
    setLocationURI(HTTPConstants.getAttribute(changedElement,
HTTPConstants.LOCATION_URI_ATTRIBUTE));
    reconcileReferences(false);
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == HTTPPackage.Literals.HTTP_ADDRESS__LOCATION_URI)
            niceSetAttribute(theElement, HTTPConstants.LOCATION_URI_ATTRIBUTE, getLocationURI());
    }
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(HTTPConstants.HTTP_NAMESPACE_URI,
HTTPConstants.ADDRESS_ELEMENT_TAG);
    return elementType;
}

```

```

}
} //HTTPAddressImpl
/*****
* Copyright (c) 2001, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.http.internal.impl;

import javax.xml.namespace.QName;

import org.eclipse.emf.ecore.EClass;
import org.eclipse.wst.wsdl.binding.http.HTTPPackage;
import org.eclipse.wst.wsdl.binding.http.HTTPUrlReplacement;
import org.eclipse.wst.wsdl.binding.http.internal.util.HTTPConstants;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Url Replacement</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * </p>
 *
 * @generated
 */
public class HTTPUrlReplacementImpl extends ExtensibilityElementImpl implements HTTPUrlReplacement
{
    /**
     * This class is not intended to be serialized.
     * serialVersionUID is assigned with 1L to avoid
     * compiler warning messages.
     */
    private static final long serialVersionUID = 1L;

    /**
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    protected HTTPUrlReplacementImpl()

```

```

{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return HTTPPackage.Literals.HTTP_URL_REPLACEMENT;
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(HTTPConstants.HTTP_NAMESPACE_URI,
HTTPConstants.URL_REPLACEMENT_ELEMENT_TAG);
    return elementType;
}

} //HTTPEndpointImpl
/*****
 * Copyright (c) 2001, 2009 IBM Corporation and others.
 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/
package org.eclipse.wst.wsdl.binding.http.internal.impl;

import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EPackage;
import org.eclipse.emf.ecore.impl.EPackageImpl;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.binding.http.HTTPAddress;
import org.eclipse.wst.wsdl.binding.http.HTTPBinding;
import org.eclipse.wst.wsdl.binding.http.HTTPFactory;
import org.eclipse.wst.wsdl.binding.http.HTTPOperation;
import org.eclipse.wst.wsdl.binding.http.HTTPPackage;
import org.eclipse.wst.wsdl.binding.http.HTTPURLEncoded;
import org.eclipse.wst.wsdl.binding.http.HTTPURLOriginal;

```

```

/**
 * <!-- begin-user-doc -->
 * An implementation of the model <b>Package</b>.
 * <!-- end-user-doc -->
 * @generated
 */
public class HTTPPackageImpl extends EPackageImpl implements HTTPPackage
{
/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass httpBindingEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass httpOperationEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass httpUrlReplacementEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass httpUrlEncodedEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass httpAddressEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated
*/
private EClass ihttpAddressEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass ihttpBindingEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass ihttpOperationEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass ihttpUrlEncodedEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass ihttpUrlReplacementEClass = null;

/**
 * Creates an instance of the model <b>Package</b>, registered with
 * { @link org.eclipse.emf.ecore.EPackage.Registry EPackage.Registry } by the package
 * package URI value.
 * <p>Note: the correct way to create the package is via the static
 * factory method { @link #init init() }, which also performs
 * initialization of the package, or returns the registered package,
 * if one already exists.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see org.eclipse.emf.ecore.EPackage.Registry
 * @see org.eclipse.wst.wsdl.binding.http.HTTPPackage#eNS_URI
 * @see #init()
 * @generated
 */
private HTTPPackageImpl()

```

```

{
    super(eNS_URI, HTTPFactory.eINSTANCE);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private static boolean isInitiated = false;

/**
 * Creates, registers, and initializes the <b>Package</b> for this
 * model, and for any others upon which it depends. Simple
 * dependencies are satisfied by calling this method on all
 * dependent packages before doing anything else. This method drives
 * initialization for interdependent packages directly, in parallel
 * with this package, itself.
 * <p>Of this package and its interdependencies, all packages which
 * have not yet been registered by their URI values are first created
 * and registered. The packages are then initialized in two steps:
 * meta-model objects for all of the packages are created before any
 * are initialized, since one package's meta-model objects may refer to
 * those of another.
 * <p>Invocation of this method will not affect any packages that have
 * already been initialized.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #eNS_URI
 * @see #createPackageContents()
 * @see #initializePackageContents()
 * @generated
 */
public static HTTPPackage init()
{
    if (isInitiated)
        return (HTTPPackage)EPackage.Registry.INSTANCE.getEPackage(HTTPPackage.eNS_URI);

    // Obtain or create and register package
    HTTPPackageImpl theHTTPPackage =
(HTTPPackageImpl)(EPackage.Registry.INSTANCE.getEPackage(eNS_URI) instanceof HTTPPackageImpl
    ? EPackage.Registry.INSTANCE.getEPackage(eNS_URI) : new HTTPPackageImpl());

    isInitiated = true;

    // Initialize simple dependencies
    WSDLPackage.eINSTANCE.eClass();
}

```



```

// Create package meta-data objects
theHTTPPackage.createPackageContents();

// Initialize created meta-data
theHTTPPackage.initializePackageContents();

// Mark meta-data to indicate it can't be changed
theHTTPPackage.freeze();

return theHTTPPackage;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getHTTPBinding()
{
    return httpBindingEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getHTTPBinding_Verb()
{
    return (EAttribute)httpBindingEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getHTTPOperation()
{
    return httpOperationEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getHTTPOperation_LocationURI()

```

```

    {
        return (EAttribute)httpOperationEClass.getEStructuralFeatures().get(0);
    }

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getHTTPTUrlReplacement()
{
    return httpUrlReplacementEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getHTTPTUrlEncoded()
{
    return httpUrlEncodedEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getHTTPAddress()
{
    return httpAddressEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getHTTPAddress_LocationURI()
{
    return (EAttribute)httpAddressEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public EClass getIHTTPAddress()
{
    return ihttpAddressEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIHTTPBinding()
{
    return ihttpBindingEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIHTTPOperation()
{
    return ihttpOperationEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIHTTPUrlEncoded()
{
    return ihttpUrlEncodedEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIHTTPUrlReplacement()
{
    return ihttpUrlReplacementEClass;
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public HTTPFactory getHTTPFactory()
{
    return (HTTPFactory)getEFactoryInstance();
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private boolean isCreated = false;

/**
* Creates the meta-model objects for the package. This method is
* guarded to have no affect on any invocation but its first.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void createPackageContents()
{
    if (isCreated)
        return;
    isCreated = true;

    // Create classes and their features
    httpBindingEClass = createEClass(HTTP_BINDING);
    createEAttribute(httpBindingEClass, HTTP_BINDING__VERB);

    httpOperationEClass = createEClass(HTTP_OPERATION);
    createEAttribute(httpOperationEClass, HTTP_OPERATION__LOCATION_URI);

    httpUrlReplacementEClass = createEClass(HTTP_URL_REPLACEMENT);

    httpUrlEncodedEClass = createEClass(HTTP_URL_ENCODED);

    httpAddressEClass = createEClass(HTTP_ADDRESS);
    createEAttribute(httpAddressEClass, HTTP_ADDRESS__LOCATION_URI);

    ihttpAddressEClass = createEClass(IHTTP_ADDRESS);

    ihttpBindingEClass = createEClass(IHTTP_BINDING);

    ihttpOperationEClass = createEClass(IHTTP_OPERATION);

```

```

iHttpRequestEncodedEClass = createEClass(IHTTP_URL_ENCODED);

iHttpRequestReplacementEClass = createEClass(IHTTP_URL_REPLACEMENT);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private boolean isInitialized = false;

/**
 * Complete the initialization of the package and its meta-model. This
 * method is guarded to have no affect on any invocation but its first.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void initializePackageContents()
{
    if (isInitialized)
        return;
    isInitialized = true;

    // Initialize package
    setName(eNAME);
    setNsPrefix(eNS_PREFIX);
    setNsURI(eNS_URI);

    // Obtain other dependent packages
    WSDLPackage theWSDLPackage =
(WSDLPackage)EPackage.Registry.INSTANCE.getEPackage(WSDLPackage.eNS_URI);

    // Add supertypes to classes
    httpBindingEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
    httpBindingEClass.getESuperTypes().add(this.getIHTTPBinding());
    httpOperationEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
    httpOperationEClass.getESuperTypes().add(this.getIHTTPOperation());
    httpRequestReplacementEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
    httpRequestReplacementEClass.getESuperTypes().add(this.getIHttpRequestReplacement());
    httpRequestEncodedEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
    httpRequestEncodedEClass.getESuperTypes().add(this.getIHttpRequestEncoded());
    httpRequestAddressEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
    httpRequestAddressEClass.getESuperTypes().add(this.getIHttpRequestAddress());

    // Initialize classes and features; add operations and parameters
    initEClass(httpBindingEClass, HTTPBinding.class, "HTTPBinding", !IS_ABSTRACT, !IS_INTERFACE,

```

```

IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getHTTPBinding_Verb(),
       .ecorePackage.getEString(),
        "verb", null, 0, 1, HTTPBinding.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

    initEClass(httpOperationEClass, HTTPOperation.class, "HTTPOperation", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getHTTPOperation_LocationURI(),
       .ecorePackage.getEString(),
        "locationURI", null, 0, 1, HTTPOperation.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

    initEClass(
        httpUriReplacementEClass,
        HTTPUriReplacement.class,
        "HTTPUriReplacement", !IS_ABSTRACT, !IS_INTERFACE, IS_GENERATED_INSTANCE_CLASS);
//$NON-NLS-1$

    initEClass(httpUrlEncodedEClass, HTTPUrlEncoded.class, "HTTPUrlEncoded", !IS_ABSTRACT,
!IS_INTERFACE, IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

    initEClass(httpAddressEClass, HTTPAddress.class, "HTTPAddress", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getHTTPAddress_LocationURI(),
       .ecorePackage.getEString(),
        "locationURI", null, 0, 1, HTTPAddress.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

    initEClass(
        ihttpAddressEClass,
        javax.wsdl.extensions.http.HTTPAddress.class,
        "IHTTPAddress", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-
1$

    initEClass(
        ihttpBindingEClass,
        javax.wsdl.extensions.http.HTTPBinding.class,
        "IHTTPBinding", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-
1$

    initEClass(
        ihttpOperationEClass,
        javax.wsdl.extensions.http.HTTPOperation.class,
        "IHTTPOperation", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-

```

NLS-1\$

```
initEClass(  
    ihttpUrlEncodedEClass,  
    javax.wsdl.extensions.http.HTTPUrlEncoded.class,  
    "IHTTPUrlEncoded", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-  
NLS-1$
```

```
initEClass(  
    ihttpUrlReplacementEClass,  
    javax.wsdl.extensions.http.HTTPUrlReplacement.class,  
    "IHTTPUrlReplacement", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS);  
//$NON-NLS-1$
```

```
// Create resource  
createResource(eNS_URI);  
}  
} //HTTPPackageImpl  
/*****  
* Copyright (c) 2001, 2007 IBM Corporation and others.  
* All rights reserved. This program and the accompanying materials  
* are made available under the terms of the Eclipse Public License v1.0  
* which accompanies this distribution, and is available at  
* http://www.eclipse.org/legal/epl-v10.html  
*  
* Contributors:  
*   IBM Corporation - initial API and implementation  
*****/  
package org.eclipse.wst.wsdl.binding.http.internal.impl;
```

```
import javax.xml.namespace.QName;
```

```
import org.eclipse.emf.ecore.EClass;  
import org.eclipse.wst.wsdl.binding.http.HTTPPackage;  
import org.eclipse.wst.wsdl.binding.http.HTTPUrlEncoded;  
import org.eclipse.wst.wsdl.binding.http.internal.util.HTTPConstants;  
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;
```

```
/**  
 * <!-- begin-user-doc -->  
 * An implementation of the model object '<em><b>Url Encoded</b></em>'.  
 * <!-- end-user-doc -->  
 * <p>  
 * </p>  
 *  
 * @generated
```

```

*/
public class HTTPUrlEncodedImpl extends ExtensibilityElementImpl implements HTTPUrlEncoded
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected HTTPUrlEncodedImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return HTTPPackage.Literals.HTTP_URL_ENCODED;
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(HTTPConstants.HTTP_NAMESPACE_URI,
HTTPConstants.URL_ENCODED_ELEMENT_TAG);
    return elementType;
}

} //HTTPUrlEncodedImpl
/*****
 * Copyright (c) 2001, 2007 IBM Corporation and others.
 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation

```



```
*****/
```

```
package org.eclipse.wst.wsdl.binding.http.internal.impl;
```

```
import org.eclipse.emf.ecore.EClass;  
import org.eclipse.emf.ecore.EObject;  
import org.eclipse.emf.ecore.EPackage;  
import org.eclipse.emf.ecore.impl.EFactoryImpl;  
import org.eclipse.emf.ecore.plugin.EcorePlugin;  
import org.eclipse.wst.wsdl.binding.http.*;
```

```
/**
```

```
 * <!-- begin-user-doc -->
```

```
 * An implementation of the model <b>Factory</b>.
```

```
 * <!-- end-user-doc -->
```

```
 * @generated
```

```
 */
```

```
public class HTTPFactoryImpl extends EFactoryImpl implements HTTPFactory
```

```
{
```

```
 /**
```

```
  * Creates the default factory implementation.
```

```
  * <!-- begin-user-doc -->
```

```
  * <!-- end-user-doc -->
```

```
  * @generated
```

```
  */
```

```
public static HTTPFactory init()
```

```
{
```

```
  try
```

```
  {
```

```
    HTTPFactory theHTTPFactory =
```

```
(HTTPFactory)EPackage.Registry.INSTANCE.getEFactory("http://www.eclipse.org/wsdl/2003/HTTP"); //$NON-NLS-1$
```

```
    if (theHTTPFactory != null)
```

```
    {
```

```
      return theHTTPFactory;
```

```
    }
```

```
  }
```

```
  catch (Exception exception)
```

```
  {
```

```
    EcorePlugin.INSTANCE.log(exception);
```

```
  }
```

```
  return new HTTPFactoryImpl();
```

```
}
```

```
/**
```

```
 * Creates an instance of the factory.
```

```
 * <!-- begin-user-doc -->
```

```

* <!-- end-user-doc -->
* @generated
*/
public HTTPFactoryImpl()
{
    super();
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EObject create(EClass eClass)
{
    switch (eClass.getClassifierID())
    {
        case HTTPPackage.HTTP_BINDING:
            return createHTTPBinding();
        case HTTPPackage.HTTP_OPERATION:
            return createHTTPOperation();
        case HTTPPackage.HTTP_URL_REPLACEMENT:
            return createHTTPUrlReplacement();
        case HTTPPackage.HTTP_URL_ENCODED:
            return createHTTPUrlEncoded();
        case HTTPPackage.HTTP_ADDRESS:
            return createHTTPAddress();
        default:
            throw new IllegalArgumentException("The class '" + eClass.getName() + "' is not a valid classifier"); //$NON-
NLS-1$ //$NON-NLS-2$
    }
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public HTTPBinding createHTTPBinding()
{
    HTTPBindingImpl httpBinding = new HTTPBindingImpl();
    return httpBinding;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated

```

```

*/
public HTTPOperation createHTTPOperation()
{
    HTTPOperationImpl httpOperation = new HTTPOperationImpl();
    return httpOperation;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public HTTPUrlReplacement createHTTPUrlReplacement()
{
    HTTPUrlReplacementImpl httpUrlReplacement = new HTTPUrlReplacementImpl();
    return httpUrlReplacement;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public HTTPUrlEncoded createHTTPUrlEncoded()
{
    HTTPUrlEncodedImpl httpUrlEncoded = new HTTPUrlEncodedImpl();
    return httpUrlEncoded;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public HTTPAddress createHTTPAddress()
{
    HTTPAddressImpl httpAddress = new HTTPAddressImpl();
    return httpAddress;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public HTTPPackage getHTTPPackage()
{
    return (HTTPPackage)getEPackage();
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @deprecated
 * @generated
 */
public static HTTPPackage getPackage()
{
    return HTTPPackage.eINSTANCE;
}
} //HTTPFactoryImpl
/*****
 * Copyright (c) 2001, 2007 IBM Corporation and others.
 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/
package org.eclipse.wst.wsdl.binding.http.internal.impl;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsdl.binding.http.HTTPBinding;
import org.eclipse.wst.wsdl.binding.http.HTTPPackage;
import org.eclipse.wst.wsdl.binding.http.internal.util.HTTPConstants;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Binding</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.binding.http.internal.impl.HTTPBindingImpl#getVerb <em>Verb</em> }</li>
 * </ul>

```

```

* </p>
*
* @generated
*/
public class HTTPBindingImpl extends ExtensibilityElementImpl implements HTTPBinding
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The default value of the '{@link #getVerb() <em>Verb</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getVerb()
 * @generated
 * @ordered
 */
protected static final String VERB_EDEFAULT = null;

/**
 * The cached value of the '{@link #getVerb() <em>Verb</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getVerb()
 * @generated
 * @ordered
 */
protected String verb = VERB_EDEFAULT;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected HTTPBindingImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

protected EClass eStaticClass()
{
    return HTTPPackage.Literals.HTTP_BINDING;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getVerb()
{
    return verb;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setVerb(String newVerb)
{
    String oldVerb = verb;
    verb = newVerb;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, HTTPPackage.HTTP_BINDING__VERB, oldVerb,
verb));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case HTTPPackage.HTTP_BINDING__VERB:
            return getVerb();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case HTTPPackage.HTTP_BINDING__VERB:
            setVerb((String)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case HTTPPackage.HTTP_BINDING__VERB:
            setVerb(VERB_EDEFAULT);
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case HTTPPackage.HTTP_BINDING__VERB:
            return VERB_EDEFAULT == null ? verb != null : !VERB_EDEFAULT.equals(verb);
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (verb: "); //$NON-NLS-1$
    result.append(verb);
    result.append(')');
    return result.toString();
}

//
// Reconcile methods: DOM -> Model
//

public void reconcileAttributes(Element changedElement)
{
    setVerb(HTTPConstants.getAttribute(changedElement, HTTPConstants.VERB_ATTRIBUTE));
    reconcileReferences(false);
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == HTTPPackage.Literals.HTTP_BINDING__VERB)
            niceSetAttribute(theElement, HTTPConstants.VERB_ATTRIBUTE, getVerb());
    }
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(HTTPConstants.HTTP_NAMESPACE_URI,
HTTPConstants.BINDING_ELEMENT_TAG);
    return elementType;
}

```



```

} //HTTPBindingImpl
/*****
* Copyright (c) 2001, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.http.internal.impl;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsdl.binding.http.HTTPOperation;
import org.eclipse.wst.wsdl.binding.http.HTTPPackage;
import org.eclipse.wst.wsdl.binding.http.internal.util.HTTPConstants;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Operation</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{@link org.eclipse.wst.wsdl.binding.http.internal.impl.HTTPOperationImpl#getLocationURI <em>Location
 * URI</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class HTTPOperationImpl extends ExtensibilityElementImpl implements HTTPOperation
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */

```

```

private static final long serialVersionUID = 1L;

/**
 * The default value of the '{@link #getLocationURI() <em>Location URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getLocationURI()
 * @generated
 * @ordered
 */
protected static final String LOCATION_URI_EDEFAULT = null;

/**
 * The cached value of the '{@link #getLocationURI() <em>Location URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getLocationURI()
 * @generated
 * @ordered
 */
protected String locationURI = LOCATION_URI_EDEFAULT;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected HTTPOperationImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return HTTPPackage.Literals.HTTP_OPERATION;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getLocationURI()

```

```

{
    return locationURI;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setLocationURI(String newLocationURI)
{
    String oldLocationURI = locationURI;
    locationURI = newLocationURI;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET,
HTTPPackage.HTTP_OPERATION__LOCATION_URI, oldLocationURI, locationURI));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case HTTPPackage.HTTP_OPERATION__LOCATION_URI:
            return getLocationURI();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case HTTPPackage.HTTP_OPERATION__LOCATION_URI:
            setLocationURI((String)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case HTTPPackage.HTTP_OPERATION__LOCATION_URI:
            setLocationURI(LOCATION_URI_EDEFAULT);
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case HTTPPackage.HTTP_OPERATION__LOCATION_URI:
            return LOCATION_URI_EDEFAULT == null ? locationURI != null :
!LOCATION_URI_EDEFAULT.equals(locationURI);
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (locationURI: "); //$NON-NLS-1$
    result.append(locationURI);
    result.append(')');
    return result.toString();
}

```

```

}

//
// Reconcile methods: DOM -> Model
//

public void reconcileAttributes(Element changedElement)
{
    setLocationURI(HTTPConstants.getAttribute(changedElement,
HTTPConstants.LOCATION_URI_ATTRIBUTE));
    reconcileReferences(false);
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == HTTPPackage.Literals.HTTP_OPERATION__LOCATION_URI)
            niceSetAttribute(theElement, HTTPConstants.LOCATION_URI_ATTRIBUTE, getLocationURI());
    }
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(HTTPConstants.HTTP_NAMESPACE_URI,
HTTPConstants.OPERATION_ELEMENT_TAG);
    return elementType;
}

} //HTTPOperationImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:

```

```

*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.http;

import org.eclipse.wst.wsdl.ExtensibilityElement;

/**
 * <!-- begin-user-doc -->
 * A representation of the model object '<em><b>Url Replacement</b></em>'.
 * <!-- end-user-doc -->
 *
 *
 * @see org.eclipse.wst.wsdl.binding.http.HTTPPackage#getHTTPUrlReplacement()
 * @model superTypes="org.eclipse.wst.wsdl.ExtensibilityElement
org.eclipse.wst.wsdl.binding.http.IHTTPUrlReplacement"
 * @generated
 */
public interface HTTPUrlReplacement extends ExtensibilityElement,
javax.wsdl.extensions.http.HTTPUrlReplacement
{
} // HTTPUrlReplacement
/*****
 * Copyright (c) 2001, 2009 IBM Corporation and others.
 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.mime.internal.impl;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsdl.Part;
import org.eclipse.wst.wsdl.binding.mime.MIMEMimeXml;
import org.eclipse.wst.wsdl.binding.mime.MIMEPackage;
import org.eclipse.wst.wsdl.binding.mime.internal.util.MIMEConstants;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;

```

```

import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Mime Xml</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.binding.mime.internal.impl.MIMEMimeXmlImpl#getEPart
 * <em>EPart</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class MIMEMimeXmlImpl extends ExtensibilityElementImpl implements MIMEMimeXml
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The cached value of the '{ @link #getEPart() <em>EPart</em>}' reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEPart()
 * @generated
 * @ordered
 */
protected Part ePart;

private String part;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected MIMEMimeXmlImpl()
{
super();
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return MIMEPackage.Literals.MIME_MIME_XML;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Part getEPart()
{
    if (ePart != null && ePart.eIsProxy())
    {
        InternalEObject oldEPart = (InternalEObject)ePart;
        ePart = (Part)eResolveProxy(oldEPart);
        if (ePart != oldEPart)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE, MIMEPackage.MIME_MIME_XML__EPART,
oldEPart, ePart));
        }
    }
    return ePart;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Part basicGetEPart()
{
    return ePart;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEPart(Part newEPart)
{

```



```

    Part oldEPart = ePart;
    ePart = newEPart;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, MIMEPackage.MIME_MIME_XML__EPART,
oldEPart, ePart));
    }

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setPart(String part)
{
    this.part = part;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public String getPart()
{
    return part;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_MIME_XML__EPART:
            if (resolve)
                return getEPart();
            return basicGetEPart();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_MIME_XML__EPART:
            setEPart((Part)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_MIME_XML__EPART:
            setEPart((Part)null);
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_MIME_XML__EPART:
            return ePart != null;
    }
    return super.eIsSet(featureID);
}

//
// Reconcile methods: DOM -> Model
//

public void reconcileAttributes(Element changedElement)

```

```

    {
        setPart(MIMEConstants.getAttribute(changedElement, MIMEConstants.PART_ATTRIBUTE));
        reconcileReferences(false);
    }

    //
    // For reconciliation: Model -> DOM
    //

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == MIMEPackage.Literals.MIME_CONTENT__EPART)
            niceSetAttribute(theElement, MIMEConstants.PART_ATTRIBUTE, getPart());
    }
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(MIMEConstants.MIME_NAMESPACE_URI,
MIMEConstants.MIME_XML_ELEMENT_TAG);
    return elementType;
}
} //MIMEMimeXmlImpl
/*****
* Copyright (c) 2001, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.mime.internal.impl;

import java.util.List;

import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EDataType;

```

```

import org.eclipse.emf.ecore.EObject;
import org.eclipse.emf.ecore.EPackage;
import org.eclipse.emf.ecore.impl.EFactoryImpl;
import org.eclipse.emf.ecore.plugin.EcorePlugin;
import org.eclipse.wst.wsdl.binding.mime.*;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model <b>Factory</b>.
 * <!-- end-user-doc -->
 * @generated
 */
public class MIMEFactoryImpl extends EFactoryImpl implements MIMEFactory
{
    /**
     * Creates the default factory implementation.
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    public static MIMEFactory init()
    {
        try
        {
            MIMEFactory theMIMEFactory =
(MIMEFactory)EPackage.Registry.INSTANCE.getEFactory("http://www.eclipse.org/wsd/2003/MIME"); //$NON-
-NLS-1$
            if (theMIMEFactory != null)
            {
                return theMIMEFactory;
            }
        }
        catch (Exception exception)
        {
            EcorePlugin.INSTANCE.log(exception);
        }
        return new MIMEFactoryImpl();
    }

    /**
     * Creates an instance of the factory.
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    public MIMEFactoryImpl()
    {

```

```

    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EObject create(EClass eClass)
{
    switch (eClass.getClassifierID())
    {
        case MIMEPackage.MIME_CONTENT:
            return createMIMEContent();
        case MIMEPackage.MIME_PART:
            return createMIMEPart();
        case MIMEPackage.MIME_MULTIPART_RELATED:
            return createMIMEMultipartRelated();
        case MIMEPackage.MIME_MIME_XML:
            return createMIMEMimeXml();
        default:
            throw new IllegalArgumentException("The class '" + eClass.getName() + "' is not a valid classifier"); //$NON-
NLS-1$ //$NON-NLS-2$
    }
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object createFromString(EDatatype eDataType, String initialValue)
{
    switch (eDataType.getClassifierID())
    {
        case MIMEPackage.LIST:
            return createListFromString(eDataType, initialValue);
        default:
            throw new IllegalArgumentException("The datatype '" + eDataType.getName() + "' is not a valid classifier");
//$NON-NLS-1$ //$NON-NLS-2$
    }
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public String convertToString(EDataType eDataType, Object instanceValue)
{
    switch (eDataType.getClassifierID())
    {
        case MIMEPackage.LIST:
            return convertListToString(eDataType, instanceValue);
        default:
            throw new IllegalArgumentException("The datatype '" + eDataType.getName() + "' is not a valid classifier");
    }
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public MIMEContent createMIMEContent()
{
    MIMEContentImpl mimeContent = new MIMEContentImpl();
    return mimeContent;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public MIMEPart createMIMEPart()
{
    MIMEPartImpl mimePart = new MIMEPartImpl();
    return mimePart;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public MIMEMultipartRelated createMIMEMultipartRelated()
{
    MIMEMultipartRelatedImpl mimeMultipartRelated = new MIMEMultipartRelatedImpl();
    return mimeMultipartRelated;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated
*/
public MIMEMimeXml createMIMEMimeXml()
{
    MIMEMimeXmlImpl mimeMimeXml = new MIMEMimeXmlImpl();
    return mimeMimeXml;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public List createListFromString(EDataType eDataType, String initialValue)
{
    return (List)super.createFromString(eDataType, initialValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String convertListToString(EDataType eDataType, Object instanceValue)
{
    return super.convertToString(eDataType, instanceValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public MIMEPackage getMIMEPackage()
{
    return (MIMEPackage)getEPackage();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @deprecated
 * @generated
 */
public static MIMEPackage getPackage()
{
    return MIMEPackage.eINSTANCE;
}

```

```

} //MIMEFactoryImpl
/*****
* Copyright (c) 2001, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.mime.internal.impl;

import java.util.Collection;
import java.util.Iterator;
import java.util.List;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.NotificationChain;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.util.EObjectContainmentEList;
import org.eclipse.emf.ecore.util.InternalEList;
import org.eclipse.wst.wsdl.WSDLFactory;
import org.eclipse.wst.wsdl.binding.mime.MIMEPackage;
import org.eclipse.wst.wsdl.binding.mime.MIMEPart;
import org.eclipse.wst.wsdl.binding.mime.internal.util.MIMEConstants;
import org.eclipse.wst.wsdl.internal.impl.DefinitionImpl;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;
import org.eclipse.wst.wsdl.internal.impl.WSDLFactoryImpl;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Part</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{@link org.eclipse.wst.wsdl.binding.mime.internal.impl.MIMEPartImpl#getEExtensibilityElements
 * <em>EExtensibility Elements</em>}</li>
 * </ul>

```



```

* </p>
*
* @generated
*/
public class MIMEPartImpl extends ExtensibilityElementImpl implements MIMEPart
{

/**
 * The cached value of the '{ @link #getEExtensibilityElements() <em>EExtensibility Elements</em>}'
containment reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEExtensibilityElements()
 * @generated
 * @ordered
 */
protected EList eExtensibilityElements;

/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected MIMEPartImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return MIMEPackage.Literals.MIME_PART;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated
*/
public EList getEExtensibilityElements()
{
    if (eExtensibilityElements == null)
    {
        eExtensibilityElements = new EObjectContainmentEList(ExtensibilityElement.class, this,
MIMEPackage.MIME_PART__EEXTENSIBILITY_ELEMENTS);
    }
    return eExtensibilityElements;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addExtensibilityElement(ExtensibilityElement extensibilityElement)
{
    getExtensibilityElements().add(extensibilityElement);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public List getExtensibilityElements()
{
    return getEExtensibilityElements();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_PART__EEXTENSIBILITY_ELEMENTS:
            return ((InternalEList)getEExtensibilityElements()).basicRemove(otherEnd, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_PART__EEXTENSIBILITY_ELEMENTS:
            return getEExtensibilityElements();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_PART__EEXTENSIBILITY_ELEMENTS:
            getEExtensibilityElements().clear();
            getEExtensibilityElements().addAll((Collection)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_PART__EEXTENSIBILITY_ELEMENTS:
            getEExtensibilityElements().clear();
            return;
    }
    super.eUnset(featureID);
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_PART__EEXTENSIBILITY_ELEMENTS:
            return eExtensibilityElements != null && !eExtensibilityElements.isEmpty();
    }
    return super.eIsSet(featureID);
}

//
// Reconciliation: DOM -> MODEL
//
public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    if (!WSDLConstants.isMatchingNamespace(child.getNamespaceURI(),
WSDLConstants.WSDL_NAMESPACE_URI))
    {
        org.eclipse.wst.wsdl.ExtensibilityElement extensibilityElement = useExtensionFactories()
            ? ((WSDLFactoryImpl)WSDLFactory.eINSTANCE).createExtensibilityElement(getNamespace(child),
getLocalName(child))
            : ((WSDLFactoryImpl)WSDLFactory.eINSTANCE).createUnknownExtensibilityElement();

        extensibilityElement.setEnclosingDefinition(getEnclosingDefinition());
        extensibilityElement.setElement(child);
        addExtensibilityElement(extensibilityElement);
    }
}

private boolean useExtensionFactories()
{
    // Use extension factories by default.
    return getEnclosingDefinition() == null ? true :
((DefinitionImpl)getEnclosingDefinition()).getUseExtensionFactories();
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(MIMEConstants.MIME_NAMESPACE_URI,
MIMEConstants.PART_ELEMENT_TAG);
    return elementType;
}

```

```

/*
 * (non-Javadoc)
 * @see org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl#createElement()
 */
public Element createElement()
{
    Element newElement = super.createElement();

    Iterator iterator = getExtensibilityElements().iterator();
    while (iterator.hasNext())
    {
        ExtensibilityElement extensibilityElement = (ExtensibilityElement)iterator.next();
        Element child = ((ExtensibilityElementImpl)extensibilityElement).createElement();
        newElement.appendChild(child);
    }

    return newElement;
}
} //MIMEPartImpl
/*****
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 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/
package org.eclipse.wst.wsdl.binding.mime.internal.impl;

import java.util.Collection;
import java.util.Iterator;
import java.util.List;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.NotificationChain;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.util.EObjectContainmentEList;
import org.eclipse.emf.ecore.util.InternalEList;
import org.eclipse.wst.wsdl.binding.mime.MIMEFactory;
import org.eclipse.wst.wsdl.binding.mime.MIMEMultipartRelated;
import org.eclipse.wst.wsdl.binding.mime.MIMEPackage;
import org.eclipse.wst.wsdl.binding.mime.MIMEPart;

```

```

import org.eclipse.wst.wsdl.binding.mime.internal.util.MIMEConstants;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Multipart Related</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.binding.mime.internal.impl.MIMEMultipartRelatedImpl#getEMIMEPart
 * <em>EMIME Part</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class MIMEMultipartRelatedImpl extends ExtensibilityElementImpl implements MIMEMultipartRelated
{
    /**
     * This class is not intended to be serialized.
     * serialVersionUID is assigned with 1L to avoid
     * compiler warning messages.
     */
    private static final long serialVersionUID = 1L;

    /**
     * The cached value of the '{ @link #getEMIMEPart() <em>EMIME Part</em>}' containment reference list.
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @see #getEMIMEPart()
     * @generated
     * @ordered
     */
    protected EList eMIMEPart;

    /**
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    protected MIMEMultipartRelatedImpl()
    {
        super();
    }
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return MIMEPackage.Literals.MIME_MULTIPART_RELATED;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEMIMEPart()
{
    if (eMIMEPart == null)
    {
        eMIMEPart = new EObjectContainmentEList(MIMEPart.class, this,
MIMEPackage.MIME_MULTIPART_RELATED__EMIME_PART);
    }
    return eMIMEPart;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addMIMEPart(javax.wsdl.extensions.mime.MIMEPart mimePart)
{
    getEMIMEPart().add(mimePart);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public List getMIMEParts()
{
    return getEMIMEPart();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated
*/
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_MULTIPART_RELATED__EMIME_PART:
            return ((InternalEList)getEMIMEPart()).basicRemove(otherEnd, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_MULTIPART_RELATED__EMIME_PART:
            return getEMIMEPart();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_MULTIPART_RELATED__EMIME_PART:
            getEMIMEPart().clear();
            getEMIMEPart().addAll((Collection)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```



```

*/
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_MULTIPART_RELATED__EMIME_PART:
            getEMIMEPart().clear();
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_MULTIPART_RELATED__EMIME_PART:
            return eMIMEPart != null && !eMIMEPart.isEmpty();
    }
    return super.eIsSet(featureID);
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    if (MIMEConstants.PART_ELEMENT_TAG.equals(child.getLocalName()))
    {
        {
            MIMEPart mimePart = MIMEFactory.eINSTANCE.createMIMEPart();
            mimePart.setEnclosingDefinition(getEnclosingDefinition());
            mimePart.setElement(child);
            addMIMEPart(mimePart);
        }
    }
}

public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(MIMEConstants.MIME_NAMESPACE_URI,
MIMEConstants.MULTIPART_RELATED_ELEMENT_TAG);
    return elementType;
}

/* (non-Javadoc)
 * @see org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl#createElement()

```

```

*/
public Element createElement()
{
    Element newElement = super.createElement();

    Iterator iterator = getMIMEParts().iterator();
    while (iterator.hasNext())
    {
        Object obj = iterator.next();
        if (obj instanceof MIMEPart)
        {
            MIMEPart mimePart = (MIMEPart)obj;
            Element child = ((MIMEPartImpl)mimePart).createElement();
            newElement.appendChild(child);
        }
    }
    return newElement;
}
} //MIMEMultipartRelatedImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.binding.mime.internal.impl;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsdl.Part;
import org.eclipse.wst.wsdl.binding.mime.MIMEContent;
import org.eclipse.wst.wsdl.binding.mime.MIMEPackage;
import org.eclipse.wst.wsdl.binding.mime.internal.util.MIMEConstants;
import org.eclipse.wst.wsdl.internal.impl.ExtensibilityElementImpl;
import org.w3c.dom.Element;

/**

```

```

* <!-- begin-user-doc -->
* An implementation of the model object '<em><b>Content</b></em>'.
* <!-- end-user-doc -->
* <p>
* The following features are implemented:
* <ul>
* <li>{ @link org.eclipse.wst.wsdl.binding.mime.internal.impl.MIMEContentImpl#getType
<em>Type</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.binding.mime.internal.impl.MIMEContentImpl#getEPart
<em>EPart</em>}</li>
* </ul>
* </p>
*
* @generated
*/
public class MIMEContentImpl extends ExtensibilityElementImpl implements MIMEContent
{
/**
* This class is not intended to be serialized.
* serialVersionUID is assigned with 1L to avoid
* compiler warning messages.
*/
private static final long serialVersionUID = 1L;

/**
* The default value of the '{ @link #getType() <em>Type</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getType()
* @generated
* @ordered
*/
protected static final String TYPE_EDEFAULT = null;

/**
* The cached value of the '{ @link #getType() <em>Type</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getType()
* @generated
* @ordered
*/
protected String type = TYPE_EDEFAULT;

/**
* The cached value of the '{ @link #getEPart() <em>EPart</em>}' reference.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->

```

```

* @see #getEPart()
* @generated
* @ordered
*/
protected Part ePart;

private String part; // TBD

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected MIMEContentImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return MIMEPackage.Literals.MIME_CONTENT;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getType()
{
    return type;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setType(String newType)
{
    String oldType = type;
    type = newType;
    if (eNotificationRequired())

```

```

    eNotify(new ENotificationImpl(this, Notification.SET, MIMEPackage.MIME_CONTENT__TYPE, oldType,
type));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Part getEPart()
{
    if (ePart != null && ePart.eIsProxy())
    {
        InternalEObject oldEPart = (InternalEObject)ePart;
        ePart = (Part)eResolveProxy(oldEPart);
        if (ePart != oldEPart)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE, MIMEPackage.MIME_CONTENT__EPART,
oldEPart, ePart));
        }
    }
    return ePart;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Part basicGetEPart()
{
    return ePart;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEPart(Part newEPart)
{
    Part oldEPart = ePart;
    ePart = newEPart;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, MIMEPackage.MIME_CONTENT__EPART, oldEPart,
ePart));
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setPart(String part)
{
    this.part = part;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public String getPart()
{
    return part;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_CONTENT__TYPE:
            return getType();
        case MIMEPackage.MIME_CONTENT__EPART:
            if (resolve)
                return getEPart();
            return basicGetEPart();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)

```

```

    {
        case MIMEPackage.MIME_CONTENT__TYPE:
            setType((String)new Value);
            return;
        case MIMEPackage.MIME_CONTENT__EPART:
            setEPart((Part)new Value);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_CONTENT__TYPE:
            setType(TYPE_EDEFAULT);
            return;
        case MIMEPackage.MIME_CONTENT__EPART:
            setEPart((Part)null);
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case MIMEPackage.MIME_CONTENT__TYPE:
            return TYPE_EDEFAULT == null ? type != null : !TYPE_EDEFAULT.equals(type);
        case MIMEPackage.MIME_CONTENT__EPART:
            return ePart != null;
    }
    return super.eIsSet(featureID);
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (type: "); //$NON-NLS-1$
    result.append(type);
    result.append(')');
    return result.toString();
}

//
// Reconcile methods: DOM -> Model
//

public void reconcileAttributes(Element changedElement)
{
    setPart(MIMEConstants.getAttribute(changedElement, MIMEConstants.PART_ATTRIBUTE));
    setType(MIMEConstants.getAttribute(changedElement, MIMEConstants.TYPE_ATTRIBUTE));
    reconcileReferences(false);
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == MIMEPackage.Literals.MIME_CONTENT__EPART)
            niceSetAttribute(theElement, MIMEConstants.PART_ATTRIBUTE, getPart());
        if (eAttribute == null || eAttribute == MIMEPackage.Literals.MIME_CONTENT__TYPE)
            niceSetAttribute(theElement, MIMEConstants.TYPE_ATTRIBUTE, getType());
    }
}

public QName getElementType()

```



```

    {
        if (elementType == null)
            elementType = new QName(MIMEConstants.MIME_NAMESPACE_URI,
MIMEConstants.CONTENT_ELEMENT_TAG);
        return elementType;
    }

} //MIMEContentImpl
/*****
 * Copyright (c) 2001, 2009 IBM Corporation and others.
 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/
package org.eclipse.wst.wsdl.binding.mime.internal.impl;

import java.util.List;

import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EDataType;
import org.eclipse.emf.ecore.EOperation;
import org.eclipse.emf.ecore.EPackage;
import org.eclipse.emf.ecore.EReference;
import org.eclipse.emf.ecore.impl.EPackageImpl;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.binding.mime.MIMEContent;
import org.eclipse.wst.wsdl.binding.mime.MIMEFactory;
import org.eclipse.wst.wsdl.binding.mime.MIMEMimeXml;
import org.eclipse.wst.wsdl.binding.mime.MIMEMultipartRelated;
import org.eclipse.wst.wsdl.binding.mime.MIMEPackage;
import org.eclipse.wst.wsdl.binding.mime.MIMEPart;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model <b>Package</b>.
 * <!-- end-user-doc -->
 * @generated
 */
public class MIMEPackageImpl extends EPackageImpl implements MIMEPackage
{
    /**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass mimeContentEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass mimePartEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass mimeMultipartRelatedEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass mimeMimeXmlEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass imimePartEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass imimeMultipartRelatedEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass imimeContentEClass = null;

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass imimeMimeXmlEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EDataType listEDataType = null;

/**
 * Creates an instance of the model <b>Package</b>, registered with
 * { @link org.eclipse.emf.ecore.EPackage.Registry EPackage.Registry } by the package
 * package URI value.
 * <p>Note: the correct way to create the package is via the static
 * factory method { @link #init init() }, which also performs
 * initialization of the package, or returns the registered package,
 * if one already exists.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see org.eclipse.emf.ecore.EPackage.Registry
 * @see org.eclipse.wst.wsdl.binding.mime.MIMEPackage#eNS_URI
 * @see #init()
 * @generated
 */
private MIMEPackageImpl()
{
    super(eNS_URI, MIMFactory.eINSTANCE);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private static boolean isInitd = false;

/**
 * Creates, registers, and initializes the <b>Package</b> for this
 * model, and for any others upon which it depends. Simple
 * dependencies are satisfied by calling this method on all
 * dependent packages before doing anything else. This method drives
 * initialization for interdependent packages directly, in parallel
 * with this package, itself.

```

```

* <p>Of this package and its interdependencies, all packages which
* have not yet been registered by their URI values are first created
* and registered. The packages are then initialized in two steps:
* meta-model objects for all of the packages are created before any
* are initialized, since one package's meta-model objects may refer to
* those of another.
* <p>Invocation of this method will not affect any packages that have
* already been initialized.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #eNS_URI
* @see #createPackageContents()
* @see #initializePackageContents()
* @generated
*/
public static MIMEPackage init()
{
    if (isInited)
        return (MIMEPackage)EPackage.Registry.INSTANCE.getEPackage(MIMEPackage.eNS_URI);

    // Obtain or create and register package
    MIMEPackageImpl theMIMEPackage =
(MIMEPackageImpl)(EPackage.Registry.INSTANCE.getEPackage(eNS_URI) instanceof MIMEPackageImpl
    ? EPackage.Registry.INSTANCE.getEPackage(eNS_URI) : new MIMEPackageImpl());

    isInited = true;

    // Initialize simple dependencies
    WSDLPackage.eINSTANCE.eClass();

    // Create package meta-data objects
    theMIMEPackage.createPackageContents();

    // Initialize created meta-data
    theMIMEPackage.initializePackageContents();

    // Mark meta-data to indicate it can't be changed
    theMIMEPackage.freeze();

    return theMIMEPackage;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getMIMEContent()

```

```

{
    return mimeContentEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getMIMEContent_Type()
{
    return (EAttribute)mimeContentEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getMIMEContent_EPart()
{
    return (EReference)mimeContentEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getMIMEPart()
{
    return mimePartEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getMIMEPart_EExtensibilityElements()
{
    return (EReference)mimePartEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public EClass getMIMEMultipartRelated()
{
    return mimeMultipartRelatedEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getMIMEMultipartRelated_EMIMEPart()
{
    return (EReference)mimeMultipartRelatedEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getMIMEMimeXml()
{
    return mimeMimeXmlEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getMIMEMimeXml_EPart()
{
    return (EReference)mimeMimeXmlEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIMIMEPart()
{
    return imimePartEClass;
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public EClass getIMIMEMultipartRelated()
{
    return imimeMultipartRelatedEClass;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getIMIMEContent()
{
    return imimeContentEClass;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getIMIMEMimeXml()
{
    return imimeMimeXmlEClass;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EDataType getList()
{
    return listEDataType;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public MIMFactory getMIMFactory()
{
    return (MIMFactory)getEFactoryInstance();
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private boolean isCreated = false;

/**
 * Creates the meta-model objects for the package. This method is
 * guarded to have no affect on any invocation but its first.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void createPackageContents()
{
    if (isCreated)
        return;
    isCreated = true;

    // Create classes and their features
    mimeContentEClass = createEClass(MIME_CONTENT);
    createEAttribute(mimeContentEClass, MIME_CONTENT__TYPE);
    createEReference(mimeContentEClass, MIME_CONTENT__EPART);

    mimePartEClass = createEClass(MIME_PART);
    createEReference(mimePartEClass, MIME_PART__EEXTENSIBILITY_ELEMENTS);

    mimeMultipartRelatedEClass = createEClass(MIME_MULTIPART_RELATED);
    createEReference(mimeMultipartRelatedEClass, MIME_MULTIPART_RELATED__EMIME_PART);

    mimeMimeXmlEClass = createEClass(MIME_MIME_XML);
    createEReference(mimeMimeXmlEClass, MIME_MIME_XML__EPART);

    imimePartEClass = createEClass(IMIME_PART);

    imimeMultipartRelatedEClass = createEClass(IMIME_MULTIPART_RELATED);

    imimeContentEClass = createEClass(IMIME_CONTENT);

    imimeMimeXmlEClass = createEClass(IMIME_MIME_XML);

    // Create data types
    listEDataType = createEDataType(LIST);
}

/**
 * <!-- begin-user-doc -->

```



```

* <!-- end-user-doc -->
* @generated
*/
private boolean isInitialized = false;

/**
 * Complete the initialization of the package and its meta-model. This
 * method is guarded to have no affect on any invocation but its first.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void initializePackageContents()
{
    if (isInitialized)
        return;
    isInitialized = true;

    // Initialize package
    setName(eNAME);
    setNsPrefix(eNS_PREFIX);
    setNsURI(eNS_URI);

    // Obtain other dependent packages
    WSDLPackage theWSDLPackage =
(WSDLPackage)EPackage.Registry.INSTANCE.getEPackage(WSDLPackage.eNS_URI);

    // Add supertypes to classes
    mimeContentEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
    mimeContentEClass.getESuperTypes().add(this.getIMIMEContent());
    mimePartEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
    mimePartEClass.getESuperTypes().add(this.getIMIMEPart());
    mimeMultipartRelatedEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
    mimeMultipartRelatedEClass.getESuperTypes().add(this.getIMIMEMultipartRelated());
    mimeMimeXmlEClass.getESuperTypes().add(theWSDLPackage.getExtensibilityElement());
    mimeMimeXmlEClass.getESuperTypes().add(this.getIMIMEMimeXml());

    // Initialize classes and features; add operations and parameters
    initEClass(mimeContentEClass, MIMEContent.class, "MIMEContent", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getMIMEContent_Type(),
        ecorePackage.getEString(),
        "type", null, 0, 1, MIMEContent.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEReference(
        getMIMEContent_EPart(),
        theWSDLPackage.getPart(),

```

```

    null,
    "ePart", null, 0, 1, MIMEContent.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
    //$NON-NLS-1$

    EOperation op = addEOperation(mimeContentEClass, null, "setPart"); //$NON-NLS-1$
    addEParameter(op, ecorePackage.getEString(), "part", 0, 1); //$NON-NLS-1$

    addEOperation(mimeContentEClass, ecorePackage.getEString(), "getPart", 0, 1); //$NON-NLS-1$

    initEClass(mimePartEClass, MIMEPart.class, "MIMEPart", !IS_ABSTRACT, !IS_INTERFACE,
    IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEReference(
        getMIMEPart_EExtensibilityElements(),
        theWSDLPackage.getExtensibilityElement(),
        null,
        "eExtensibilityElements", null, 0, -1, MIMEPart.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
    //$NON-NLS-1$

    op = addEOperation(mimePartEClass, null, "addExtensibilityElement"); //$NON-NLS-1$
    addEParameter(op, theWSDLPackage.getIExtensibilityElement(), "extensibilityElement", 0, 1); //$NON-NLS-1$

    addEOperation(mimePartEClass, this.getList(), "getExtensibilityElements", 0, 1); //$NON-NLS-1$

    initEClass(
        mimeMultipartRelatedEClass,
        MIMEMultipartRelated.class,
        "MIMEMultipartRelated", !IS_ABSTRACT, !IS_INTERFACE, IS_GENERATED_INSTANCE_CLASS);
    //$NON-NLS-1$
    initEReference(
        getMIMEMultipartRelated_EMIMEPart(),
        this.getMIMEPart(),
        null,
        "eMIMEPart", null, 0, -1, MIMEMultipartRelated.class, !IS_TRANSIENT, !IS_VOLATILE,
        IS_CHANGEABLE, IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE,
        !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

    op = addEOperation(mimeMultipartRelatedEClass, null, "addMIMEPart"); //$NON-NLS-1$
    addEParameter(op, this.getIMIMEPart(), "mimePart", 0, 1); //$NON-NLS-1$

    addEOperation(mimeMultipartRelatedEClass, this.getList(), "getMIMEParts", 0, 1); //$NON-NLS-1$

    initEClass(mimeMimeXmlEClass, MIMEMimeXml.class, "MIMEMimeXml", !IS_ABSTRACT,
    !IS_INTERFACE, IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEReference(
        getMIMEMimeXml_EPart(),
        theWSDLPackage.getPart(),

```

```

    null,
    "ePart", null, 0, 1, MIMEMimeXml.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$

    op = addEOperation(mimeMimeXmlEClass, null, "setPart"); //$NON-NLS-1$
    addEParameter(op,.ecorePackage.getEString(), "part", 0, 1); //$NON-NLS-1$

    addEOperation(mimeMimeXmlEClass,.ecorePackage.getEString(), "getPart", 0, 1); //$NON-NLS-1$

    initEClass(
        imimePartEClass,
        javax.wsdl.extensions.mime.MIMEPart.class,
        "IMIMEPart", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

    initEClass(
        imimeMultipartRelatedEClass,
        javax.wsdl.extensions.mime.MIMEMultipartRelated.class,
        "IMIMEMultipartRelated", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS);
//$NON-NLS-1$

    initEClass(
        imimeContentEClass,
        javax.wsdl.extensions.mime.MIMEContent.class,
        "IMIMEContent", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-
1$

    initEClass(
        imimeMimeXmlEClass,
        javax.wsdl.extensions.mime.MIMEMimeXml.class,
        "IMIMEMimeXml", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-
NLS-1$

    // Initialize data types
    initEDatatype(listEDatatype, List.class, "List", IS_SERIALIZABLE, !IS_GENERATED_INSTANCE_CLASS);
//$NON-NLS-1$

    // Create resource
    createResource(eNS_URI);
}
} //MIMEPackageImpl
/*****
* Copyright (c) 2006, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*

```

```
* Contributors:
* IBM Corporation - initial API and implementation
*****/
```

```
package org.eclipse.wst.wsdl.util;
```

```
import org.eclipse.emf.common.util.BasicEList;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.impl.EObjectImpl;
import org.eclipse.xsd.XSDDiagnostic;
import org.eclipse.xsd.XSDDiagnosticSeverity;
import org.w3c.dom.Node;
```

```
/**
```

```
 * Default implementation of the WSDLDiagnostic interface. This class is based
 * on XSDDiagnosticImpl
```

```
 * <p>
```

```
 * <b>Note:</b> This class/interface is part of an interim API that is still
 * under development and expected to change significantly before reaching
 * stability. It is being made available at this early stage to solicit feedback
 * from pioneering adopters on the understanding that any code that uses this
 * API will almost certainly be broken (repeatedly) as the API evolves.
```

```
 * </p>
```

```
 */
```

```
public class WSDLDiagnosticImpl extends EObjectImpl implements WSDLDiagnostic
```

```
{
```

```
 /**
```

```
 * The default value of the '{@link #getColumn() <em>Column</em>}'
 * attribute.
```

```
 *
```

```
 * @see #getColumn()
```

```
 */
```

```
protected static final int COLUMN_EDEFAULT = 1;
```

```
 /**
```

```
 * The default value of the '{@link #getLine() <em>Line</em>}' attribute.
```

```
 *
```

```
 *
```

```
 * @see #getLine()
```

```
 */
```

```
protected static final int LINE_EDEFAULT = 1;
```

```
 /**
```

```
 * The default value of the '{@link #getLocationURI() <em>Location URI</em>}'
```

```
 * attribute. <!-- begin-user-doc --> <!-- end-user-doc -->
```

```
 *
```

```

* @see #getLocationURI()
*/
protected static final String LOCATION_URI_EDEFAULT = null;

/**
 * The default value of the '{ @link #getMessage() <em>Message</em>}'
 * attribute.
 *
 * @see #getMessage()
 */
protected static final String MESSAGE_EDEFAULT = null;

/**
 * The default value of the '{ @link #getSeverity() <em>Severity</em>}'
 * attribute.
 *
 * @see #getSeverity()
 */
protected static final WSDLDiagnosticSeverity SEVERITY_EDEFAULT =
WSDLDiagnosticSeverity.FATAL_LITERAL;

/**
 * The cached value of the '{ @link #getColumn() <em>Column</em>}' attribute.
 *
 *
 * @see #getColumn()
 *
 * @ordered
 */
protected int column = COLUMN_EDEFAULT;

/**
 * The cached value of the '{ @link #getLine() <em>Line</em>}' attribute.
 *
 *
 * @see #getLine()
 */
protected int line = LINE_EDEFAULT;

/**
 * The cached value of the '{ @link #getLocationURI() <em>Location URI</em>}'
 * attribute. <!-- begin-user-doc --> <!-- end-user-doc -->
 *
 * @see #getLocationURI()
 */
protected String locationURI = LOCATION_URI_EDEFAULT;

/**

```

```

* The cached value of the '{@link #getMessage() <em>Message</em>}'
* attribute.
*
* @see #getMessage()
*/
protected String message = MESSAGE_EDEFAULT;

/**
* The cached value of the '{@link #getSeverity() <em>Severity</em>}'
* attribute.
*
* @see #getSeverity()
*/
protected WSDLDiagnosticSeverity severity = SEVERITY_EDEFAULT;

/**
* The original message key.
*/
protected String key;

/**
* The original message parameters.
*/
protected EList substitutions;

/**
* The Node where the error occurs
*/
protected Node node;

/**
* The WSDLElement or XSDConcreteComponent object where the error occurs
*/
protected Object container;

/**
* Default constructor.
*/
public WSDLDiagnosticImpl()
{
    super();
}

/**
* Wraps an XSD diagnostic into a WSDL diagnostic. Used to report problems in
* inline schemas.
*
* @param xsdDiagnostic

```

```

*     the XSD diagnostic object to wrap. Must not be null.
*/
public WSDLDiagnosticImpl(XSDDiagnostic xsdDiagnostic)
{
    this();
    setMessage(xsdDiagnostic.getMessage());
    setSeverity(getSeverity(xsdDiagnostic.getSeverity()));
    setLine(xsdDiagnostic.getLine());
    setColumn(xsdDiagnostic.getColumn());
    setNode(xsdDiagnostic.getNode());
    setContainer(xsdDiagnostic.getContainer());
    setLocation(xsdDiagnostic.getLocation());
    setKey(xsdDiagnostic.getKey());
    getSubstitutions().addAll(xsdDiagnostic.getSubstitutions());
}

/*
 * (non-Javadoc)
 *
 * @see org.eclipse.emf.ecore.resource.Resource$Diagnostic#getColumn()
 */
public int getColumn()
{
    return column;
}

/*
 * (non-Javadoc)
 *
 * @see org.eclipse.emf.ecore.resource.Resource$Diagnostic#getLine()
 */
public int getLine()
{
    return line;
}

/*
 * (non-Javadoc)
 *
 * @see org.eclipse.emf.ecore.resource.Resource$Diagnostic#getLocation()
 */
public String getLocation()
{
    return locationURI;
}

/*
 * (non-Javadoc)

```

```

*
* @see org.eclipse.emf.ecore.resource.Resource$Diagnostic#getMessage()
*/
public String getMessage()
{
    return message;
}

/*
* (non-Javadoc)
* @see org.eclipse.wst.wsdl.util.WSDLDiagnostic#getSeverity()
*/
public WSDLDiagnosticSeverity getSeverity()
{
    return severity;
}

/**
* Converts an XSD diagnostic severity level into a WSDL diagnostic severity
* level.
*
* @param xsdDiagnosticSeverity
*     the source XSD diagnostic severity.
* @return the equivalent WSDL diagnostic severity.
*/
private WSDLDiagnosticSeverity getSeverity(XSDDiagnosticSeverity xsdDiagnosticSeverity)
{
    switch (xsdDiagnosticSeverity.getValue())
    {
        case XSDDiagnosticSeverity.FATAL:
            return WSDLDiagnosticSeverity.FATAL_LITERAL;
        case XSDDiagnosticSeverity.ERROR:
            return WSDLDiagnosticSeverity.ERROR_LITERAL;
        case XSDDiagnosticSeverity.WARNING:
            return WSDLDiagnosticSeverity.WARNING_LITERAL;
        case XSDDiagnosticSeverity.INFORMATION:
            return WSDLDiagnosticSeverity.INFORMATION_LITERAL;
        default:
            break;
    }
    return SEVERITY_EDEFAULT;
}

/**
* Sets the new value of the column attribute.
*
* @param newColumn
*     the new column value.

```



```

*/
public void setColumn(int newColumn)
{
    column = newColumn;
}

public void setLine(int newLine)
{
    line = newLine;
}

/**
 * Sets the value of the loaction attribute.
 *
 * @param location
 *     a String with the new value for the location attribute
 */
public void setLocation(String location)
{
    locationURI = location;
}

/**
 * Sets a new value for the message attribute.
 *
 * @param newMessage
 *     a String with the new message.
 */
public void setMessage(String newMessage)
{
    message = newMessage;
}

/*
 * (non-Javadoc)
 * @see
 org.eclipse.wst.wsdl.util.WSDLDiagnostic#setSeverity(org.eclipse.wst.wsdl.util.WSDLDiagnosticSeverity)
 */
public void setSeverity(WSDLDiagnosticSeverity newSeverity)
{
    severity = newSeverity == null ? SEVERITY_EDEFAULT : newSeverity;
}

/*
 * (non-Javadoc)
 *
 * @see org.eclipse.wst.wsdl.util.WSDLDiagnostic#getKey()
 */

```

```

public String getKey()
{
    return key;
}

/*
 * (non-Javadoc)
 * @see org.eclipse.wst.wsdl.util.WSDLDiagnostic#setKey(java.lang.String)
 */
public void setKey(String value)
{
    key = value;
}

/*
 * (non-Javadoc)
 * @see org.eclipse.wst.wsdl.util.WSDLDiagnostic#getSubstitutions()
 */
public EList getSubstitutions()
{
    if (substitutions == null)
    {
        substitutions = new BasicEList();
    }
    return substitutions;
}

/* (non-Javadoc)
 * @see org.eclipse.wst.wsdl.util.WSDLDiagnostic#getNode()
 */
public Node getNode()
{
    return node;
}

/* (non-Javadoc)
 * @see org.eclipse.wst.wsdl.util.WSDLDiagnostic#setNode(org.w3c.dom.Node)
 */
public void setNode(Node node)
{
    this.node = node;
}

/* (non-Javadoc)
 * @see org.eclipse.wst.wsdl.util.WSDLDiagnostic#getContainer()
 */
public Object getContainer()
{

```

```

    return container;
}

/* (non-Javadoc)
 * @see org.eclipse.wst.wsdl.util.WSDLDiagnostic#setContainer(java.lang.Object)
 */
public void setContainer(Object container)
{
    this.container = container;
}
}

/*****
 * Copyright (c) 2001, 2008 IBM Corporation and others.
 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/
package org.eclipse.wst.wsdl.util;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.io.OutputStreamWriter;
import java.io.Writer;
import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;

import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.ParserConfigurationException;
import javax.xml.transform.OutputKeys;
import javax.xml.transform.Transformer;
import javax.xml.transform.TransformerException;
import javax.xml.transform.TransformerFactory;
import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.stream.StreamResult;

import org.eclipse.core.runtime.IProgressMonitor;
import org.eclipse.emf.common.util.URI;
import org.eclipse.emf.ecore.EObject;
import org.eclipse.emf.ecore.resource.Resource;

```

```

import org.eclipse.emf.ecore.resource.URICConverter;
import org.eclipse.emf.ecore.resource.impl.ResourceImpl;
import org.eclipse.emf.ecore.util.EcoreUtil;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.Types;
import org.eclipse.wst.wsdl.WSDLFactory;
import org.eclipse.wst.wsdl.WSDLPlugin;
import org.eclipse.wst.wsdl.XSDSchemaExtensibilityElement;
import org.eclipse.wst.wsdl.internal.impl.DefinitionImpl;
import org.eclipse.wst.wsdl.internal.util.WSDLResourceFactoryImpl;
import org.eclipse.wst.wsdl.internal.util.XSDSchemaLocatorAdapterFactory;
import org.eclipse.xsd.XSDSchema;
import org.eclipse.xsd.util.DefaultJAXPCConfiguration;
import org.eclipse.xsd.util.JAXPCConfiguration;
import org.eclipse.xsd.util.JAXPPool;
import org.eclipse.xsd.util.XSDSchemaLocator;
import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.xml.sax.ErrorHandler;
import org.xml.sax.InputSource;
import org.xml.sax.SAXException;
import org.xml.sax.SAXParseException;

/**
 * <!-- begin-user-doc -->
 * The <b>Resource</b> implementation for the model.
 * This specialized resource implementation supports it's own way of making keys and
 * hrefs, and it's own serialization. This class is not intended for subclassing
 * outside of the model implementation; it is intended to be used as is with the
 * Resource framework.
 * <p>
 * <b>Note:</b> This class/interface is part of an interim API that is still under development and expected to
 * change significantly before reaching stability. It is being made available at this early stage to solicit feedback
 * from pioneering adopters on the understanding that any code that uses this API will almost certainly be broken
 * (repeatedly) as the API evolves.
 * </p>
 * @since 1.0
 * @ignore
 * <!-- end-user-doc -->
 * @see org.eclipse.wst.wsdl.internal.util.WSDLResourceFactoryImpl
 * @generated
 */
public class WSDLResourceImpl extends ResourceImpl
{

    private boolean useExtensionFactories = true;

```

```

private boolean continueOnError = true;

public static final String USE_EXTENSION_FACTORIES = "USE_EXTENSION_FACTORIES"; //$NON-NLS-1$

public static final String CONTINUE_ON_LOAD_ERROR = "CONTINUE_ON_LOAD_ERROR"; //$NON-NLS-1$

public static final String WSDL_ENCODING = "WSDL_ENCODING"; //$NON-NLS-1$

public static final String WSDL_PROGRESS_MONITOR = "WSDL_PROGRESS_MONITOR"; //$NON-NLS-1$

/**
 * Add this option with a value of Boolean.TRUE to the options map when
 * loading a resource to instruct the loader to track source code location for
 * each node in the source document.
 *
 * @see WSDLParser#getUserData(org.w3c.dom.Node)
 * @see WSDLParser#getStartColumn(org.w3c.dom.Node)
 * @see WSDLParser#getEndColumn(org.w3c.dom.Node)
 * @see WSDLParser#getStartLine(org.w3c.dom.Node)
 * @see WSDLParser#getEndLine(org.w3c.dom.Node)
 */
public static final String TRACK_LOCATION = "TRACK_LOCATION"; //$NON-NLS-1$

/**
 * This option can be used as an option on Resource#load methods to specify JAXP pool to be used
 * for loading and serializing XML Schemas.
 * @see Resource#load(InputStream, Map)
 * @see Resource#load(Map)
 */
public static final String WSDL_JAXP_POOL = "WSDL_JAXP_POOL"; //$NON-NLS-1$

/**
 * This option can be used as an option on Resource#load methods to specify JAXP configuration
 * that creates and configures SAX, DOM parsers and Transformer.
 * @see Resource#load(InputStream, Map)
 * @see Resource#load(Map)
 */
public static final String WSDL_JAXP_CONFIG = "WSDL_JAXP_CONFIG"; //$NON-NLS-1$

/**
 * Creates an instance of the resource.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 *
 * @param uri the URI of the new resource.

```

```

* @generated
*/
public WSDLResourceImpl(URI uri)
{
    super(uri);
}

protected void doSave(OutputStream os, Map options) throws IOException
{
    Definition definition = getDefinition();
    if (definition != null)
    {
        Document document = definition.getDocument();
        if (document == null)
        {
            ((DefinitionImpl)definition).updateDocument();
            document = definition.getDocument();
        }

        if (definition.getElement() == null)
        {
            ((DefinitionImpl)definition).updateElement();
        }

        doSerialize(os, document, options);
    }
}

/**
 * Returns the resource's Definition.
 */
public Definition getDefinition()
{
    return getContents().size() == 1 && getContents().get(0) instanceof Definition ? (Definition)getContents().get(0) :
    null;
}

private static void doSerialize(OutputStream outputStream, Document document, String encoding)
{
    try
    {
        Transformer transformer = new DefaultJAXPConfiguration().createTransformer(encoding);
        // Be sure to use actual encoding of the transformer which might be non-null even if encoding started as null.
        encoding = transformer.getOutputProperty(OutputKeys.ENCODING);
        Writer writer = encoding == null ? new OutputStreamWriter(outputStream) : new
        OutputStreamWriter(outputStream, encoding);
        transformer.transform(new DOMSource(document), new StreamResult(writer));
    }
}

```

```

catch (Exception exception)
{
    WSDLPlugin.INSTANCE.log(exception);
}
}

private static void doSerialize(OutputStream outputStream, Document document, Map options) throws
IOException
{
    JAXPPool jaxpPool = null;
    JAXPConfiguration config = null;
    String encoding = null;

    if (options != null)
    {
        jaxpPool = (JAXPPool)options.get(WSDL_JAXP_POOL);
        config = (JAXPConfiguration)options.get(WSDL_JAXP_CONFIG);
        encoding = (String)options.get(WSDL_ENCODING);
    }

    if (jaxpPool == null)
    {
        if (config == null)
        {
            doSerialize(outputStream, document, encoding);
        }
        else
        {
            try
            {
                Transformer transformer = config.createTransformer(encoding);
                // Be sure to use actual encoding of the transformer which might be non-null even if encoding started as null.
                encoding = transformer.getOutputProperty(OutputKeys.ENCODING);
                Writer writer = encoding == null ? new OutputStreamWriter(outputStream) : new
OutputStreamWriter(outputStream, encoding);
                transformer.transform(new DOMSource(document), new StreamResult(writer));
            }
            catch (TransformerException exception)
            {
                WSDLPlugin.getPlugin().log(exception);
            }
        }
    }
    else
    {
        Transformer transformer = null;
        try
        {

```

```

        transformer = jaxpPool.getTransformer(encoding);
        Writer writer = encoding == null ? new OutputStreamWriter(outputStream) : new
OutputStreamWriter(outputStream, encoding);
        transformer.transform(new DOMSource(document), new StreamResult(writer));
    }
    catch (TransformerException exception)
    {
        WSDLPlugin.INSTANCE.log(exception);
    }
    finally
    {
        jaxpPool.releaseTransformer(transformer);
    }
}
}

/**
 * Loads a new {@link WSDLResourceImpl} into the resource set.
 * @param inputSource the contents of the new resource.
 * @param options any options to influence loading behavior.
 */
protected void doLoad(InputSource inputSource, Map options) throws IOException
{
    // This pattern avoids loading the IProgressMonitor class when there is no progress monitor.
    // This is important for stand-alone execution to work correctly.
    //
    IProgressMonitor progressMonitor = null;
    Object monitor = options == null ? null : options.get(WSDL_PROGRESS_MONITOR);
    if (monitor != null)
    {
        progressMonitor = (IProgressMonitor)monitor;
        progressMonitor.setTaskName(WSDLPlugin.INSTANCE.getString("_UI_ResourceLoad_progress")); //$NON-
NLS-1$
        progressMonitor.subTask(getURI().toString());
    }

    Object bindings = options == null ? null : options.get(USE_EXTENSION_FACTORIES);
    if (bindings != null && bindings instanceof Boolean)
        // true by default
        useExtensionFactories = ((Boolean)bindings).booleanValue();

    Object continueOnError = options == null ? null : options.get(CONTINUE_ON_LOAD_ERROR);
    if (continueOnError != null && continueOnError instanceof Boolean)
        // true by default
        continueOnError = ((Boolean)continueOnError).booleanValue();

    Document doc = null;
    try

```



```

{
    boolean trackLocation = options != null && Boolean.TRUE.equals(options.get(TRACK_LOCATION));

    if (trackLocation)
    {
        doc = getDocumentUsingSAX(inputSource, options);
    }
    else
    {
        // Create a DOM document
        doc = getDocument(inputSource, new InternalErrorHandler(), options);
    }

    if (doc != null && doc.getDocumentElement() != null)
    {
        if (!findDefinition(doc.getDocumentElement()))
        {
            if (continueOnError)
                handleDefinitionElement(doc.getDocumentElement());
            else
                throw new IOException(WSDLPlugin.getPlugin().getString("_ERROR_INVALID_WSDL")); //$NON-NLS-
1$
        }
    }
    else
    {
        handleDefinitionElement(null);
    }
}
catch (IOException exception)
{
    if (continueOnError)
    {
        WSDLPlugin.INSTANCE.log(exception);
        handleDefinitionElement(null);
    }
    else
        throw exception;
}

Definition definition = null;

for (Iterator i = getContents().iterator(); i.hasNext();)
{
    definition = (Definition)i.next();

    // Initialize the inline schemas location
    Types types = definition.getETypes();

```

```

if (types != null)
{
    XSDSchemaExtensibilityElement el = null;
    for (Iterator j = types.getEExtensibilityElements().iterator(); j.hasNext();)
    {
        ExtensibilityElement extensibilityElement = (ExtensibilityElement)j.next();
        if (!(extensibilityElement instanceof XSDSchemaExtensibilityElement))
        {
            continue;
        }

        el = (XSDSchemaExtensibilityElement) extensibilityElement;
        XSDSchema schema = el.getSchema();
        if (schema != null)
            schema.setSchemaLocation(getURI().toString());
    }
}

if (progressMonitor != null)
{
    progressMonitor.worked(1);
}

/**
 * Loads a new {@link WSDLResourceImpl} into the resource set.
 * @param inputStream the contents of the new resource.
 * @param options any options to influence loading behavior.
 */
protected void doLoad(InputStream inputStream, Map options) throws IOException
{
    InputSource inputSource = inputStream instanceof URICConverter.ReadableInputStream ? new InputSource(
        ((URICConverter.ReadableInputStream)inputStream).asReader()) : new InputSource(inputStream);

    if (getURI() != null)
    {
        String id = getURI().toString();
        inputSource.setPublicId(id);
        inputSource.setSystemId(id);
    }
    doLoad(inputSource, options);
}

/**
 * Use a custom SAX parser to allow us to track the source location of
 * each node in the source XML document.
 * @param inputSource the parsing source. Must not be null.

```

```

* @param options the loading options.
* @return the DOM document created by parsing the input stream.
*/
private Document getDocumentUsingSAX(InputSource inputSource, Map options)
{
    WSDLParser wsdlParser = new WSDLParser(options);
    wsdlParser.parse(inputSource);

    Collection errors = wsdlParser.getDiagnostics();

    if (errors != null)
    {
        Iterator iterator = errors.iterator();

        while (iterator.hasNext())
        {
            WSDLDiagnostic wsdlDiagnostic = (WSDLDiagnostic)iterator.next();
            switch (wsdlDiagnostic.getSeverity().getValue())
            {
                case WSDLDiagnosticSeverity.FATAL:
                case WSDLDiagnosticSeverity.ERROR:
                {
                    getErrors().add(wsdlDiagnostic);
                    break;
                }
                case WSDLDiagnosticSeverity.WARNING:
                case WSDLDiagnosticSeverity.INFORMATION:
                {
                    getWarnings().add(wsdlDiagnostic);
                    break;
                }
            }
        }
    }

    Document doc = wsdlParser.getDocument();

    if (wsdlParser.getEncoding() != null)
    {
        getDefaultSaveOptions().put(WSDL_ENCODING, wsdlParser.getEncoding());
    }

    return doc;
}

/**
* Builds a document using Xerces.
* @param inputSource the contents to parse.

```

```

* @param errorHandler the handled used by the parser.
* @return a document.
*/
private static Document getDocument(InputSource inputSource, ErrorHandler errorHandler) throws IOException
{
    ClassLoader previousClassLoader = Thread.currentThread().getContextClassLoader();
    try
    {
        Thread.currentThread().setContextClassLoader(WSDLResourceFactoryImpl.class.getClassLoader());

        DocumentBuilderFactory documentBuilderFactory = DocumentBuilderFactory.newInstance();
        documentBuilderFactory.setNamespaceAware(true);
        documentBuilderFactory.setValidating(false);

        try
        {
            // Using a deferred DOM document in the WSDL model may cause a
            // performance problem in terms of memory consumption in particular.
            // We're attempting to use the feature which instructs the Xerces parser
            // to not use deferred DOM trees.
            // TODO Convert to use setFeature when it becomes available. The Xerces
            // versions < 2.7.1 do not fully support setFeature, so we have to use
            // setAttribute.
            documentBuilderFactory.setAttribute("http://apache.org/xml/features/dom/defer-node-expansion",
Boolean.FALSE); //$NON-NLS-1$
        }
        catch (IllegalArgumentException e)
        {
            // Ignore, as the code will have to run with parsers other than Xerces.
        }

        DocumentBuilder documentBuilder = documentBuilderFactory.newDocumentBuilder();

        // TBD - Revisit
        //EntityResolver entityResolver = createEntityResolver();
        //documentBuilder.setEntityResolver(entityResolver);

        documentBuilder.setErrorHandler(errorHandler);

        Document document = documentBuilder.parse(inputSource);
        return document;
    }
    catch (ParserConfigurationException exception)
    {
        throw new IOWrappedException(exception);
    }
    catch (SAXException exception)
    {

```

```

        throw new IOWrappedException(exception);
    }
    finally
    {
        Thread.currentThread().setContextClassLoader(previousClassLoader);
    }
}

/**
 * Builds DOM document using JAXP DocumentBuilder
 * @see #WSDL_JAXP_POOL
 * @see #WSDL_JAXP_CONFIG
 * @param inputSource the content to parser
 * @param errorHandler error handler for recording any loading errors
 * @param options loading options
 * @return document DOM document
 * @throws IOException
 */
private static Document getDocument(InputSource inputSource, ErrorHandler errorHandler, Map options) throws
IOException
{
    JAXPPool jaxpPool = null;
    JAXPConfiguration config = null;
    if (options != null)
    {
        jaxpPool = (JAXPPool)options.get(WSDL_JAXP_POOL);
        config = (JAXPConfiguration)options.get(WSDL_JAXP_CONFIG);
    }

    if (jaxpPool == null)
    {
        if (config == null)
        {
            return getDocument(inputSource, errorHandler);
        }
        else
        {
            try
            {
                DocumentBuilder documentBuilder = config.createDocumentBuilder(errorHandler);
                Document document = documentBuilder.parse(inputSource);
                return document;
            }
            catch (ParserConfigurationException exception)
            {
                throw new IOWrappedException(exception);
            }
            catch (SAXException exception)

```

```

    {
        throw new IOWrappedException(exception);
    }
}
else
{
    DocumentBuilder documentBuilder = null;
    try
    {
        documentBuilder = jaxpPool.getDocumentBuilder(errorHandler);
        Document document = documentBuilder.parse(inputSource);
        return document;
    }
    catch (ParserConfigurationException exception)
    {
        throw new IOWrappedException(exception);
    }
    catch (SAXException exception)
    {
        throw new IOWrappedException(exception);
    }
    finally
    {
        jaxpPool.releaseDocumentBuilder(documentBuilder);
    }
}
}

```

```

private boolean findDefinition(Element element)
{
    if (WSDLConstants.nodeType(element) == WSDLConstants.DEFINITION)
    {
        handleDefinitionElement(element);
        return true;
    }
    else
    {
        boolean result = false;
        /*
        for (Node child = element.getFirstChild(); child != null; child = child.getNextSibling())
        {
            if (child instanceof Element)
            {
                if (findDefinition((Element) child))
                {
                    result = true;
                }
            }
        }
        */
    }
}

```

```

    }
    }
    */
    return result;
}
}

private void handleDefinitionElement(Element element)
{
    Definition definition = null;
    if (element == null)
    {
        definition = WSDLFactory.eINSTANCE.createDefinition();
        ((DefinitionImpl)definition).setUseExtensionFactories(useExtensionFactories);
    }
    else
    {
        definition = DefinitionImpl.createDefinition(element, getURI().toString(), useExtensionFactories);
    }
    getContents().add(definition);
    // Do we need the next line?
    ((DefinitionImpl)definition).reconcileReferences(true);
}

public static void serialize(OutputStream outputStream, Document document)
{
    serialize(outputStream, document, null);
}

public static void serialize(OutputStream outputStream, Document document, String encoding)
{
    doSerialize(outputStream, document, encoding);
}

public static void serialize(OutputStream outputStream, Element element)
{
    serialize(outputStream, element, null);
}

public static void serialize(OutputStream outputStream, Element element, String encoding)
{
    try
    {
        doSerialize(outputStream, element, encoding);
    }
    catch (Exception exception)
    {
        exception.printStackTrace();
    }
}

```

```

    }
}

private static void doSerialize(OutputStream outputStream, Element element, String encoding) throws IOException
{
    try
    {
        TransformerFactory transformerFactory = TransformerFactory.newInstance();
        Transformer transformer = transformerFactory.newTransformer();

        transformer.setOutputProperty(OutputKeys.INDENT, "yes"); //$NON-NLS-1$
        transformer.setOutputProperty(OutputKeys.METHOD, "xml"); //$NON-NLS-1$
        if (encoding != null)
        {
            transformer.setOutputProperty(OutputKeys.ENCODING, encoding);
        }

        transformer.transform(new DOMSource(element), new StreamResult(outputStream));
    }
    catch (TransformerException exception)
    {
        WSDLPlugin.INSTANCE.log(exception);
    }
}

private class InternalErrorHandler implements ErrorHandler
{
    public void error(SAXParseException e)
    {
        System.out.println("WSDL PARSE ERROR: " + e);
    }

    public void fatalError(SAXParseException e)
    {
        System.out.println("WSDL PARSE FATAL ERROR: " + e);
    }

    public void warning(SAXParseException e)
    {
        System.out.println("WSDL PARSE WARNING: " + e);
    }
}

public void attached(EObject eObject)
{
    super.attached(eObject);

    // we need to attach a XSDSchemaLocator in order to resolve inline schema locations

```



```

// if there's not already one attached
XSDSchemaLocator xsdSchemaLocator = (XSDSchemaLocator)EcoreUtil.getRegisteredAdapter(this,
XSDSchemaLocator.class);
if (xsdSchemaLocator == null)
{
    getResourceSet().getAdapterFactory().add(new XSDSchemaLocatorAdapterFactory());
}

if (EObject instanceof DefinitionImpl)
{
    DefinitionImpl definition = (DefinitionImpl)EObject;
    definition.setInlineSchemaLocations(this);
}
}
/*
public void setInlineSchemaLocations(Definition definition)
{
    // Initialize the inline schemas location
    Types types = definition.getETypes();
    if (types != null)
    {
        for (Iterator j = types.getEExtensibilityElements().iterator(); j.hasNext();)
        {
            XSDSchemaExtensibilityElement el = (XSDSchemaExtensibilityElement) j.next();
            XSDSchema schema = el.getSchema();
            if (schema != null)
            {
                schema.setSchemaLocation(getURI().toString());
            }
        }
    }
}*/

public Map getDefaultSaveOptions()
{
    if (defaultSaveOptions == null)
    {
        defaultSaveOptions = new HashMap();
    }

    return defaultSaveOptions;
}
} //WSDLResourceFactoryImpl
/*****
* Copyright (c) 2001, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at

```

```

* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****
package org.eclipse.wst.wsdl.internal.util;

import org.eclipse.emf.common.util.URI;
import org.eclipse.emf.ecore.resource.Resource;
import org.eclipse.emf.ecore.resource.impl.ResourceFactoryImpl;
import org.eclipse.wst.wsdl.util.WSDLResourceImpl;

/**
 * <!-- begin-user-doc -->
 * The <b>Resource Factory</b> associated with the package.
 * <!-- end-user-doc -->
 * @see org.eclipse.wst.wsdl.util.WSDLResourceImpl
 * @generated
 */
public class WSDLResourceFactoryImpl extends ResourceFactoryImpl
{
    /**
     * Creates an instance of the resource factory.
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    public WSDLResourceFactoryImpl()
    {
        super();
    }

    /**
     * Creates an instance of the resource.
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    public Resource createResource(URI uri)
    {
        Resource result = new WSDLResourceImpl(uri);
        return result;
    }
} //WSDLResourceFactoryImpl
*****
* Copyright (c) 2001, 2007 IBM Corporation and others.

```

```

* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.util;

```

```
import java.util.Iterator;
```

```
import org.eclipse.emf.common.notify.impl.AdapterImpl;
import org.eclipse.emf.ecore.EObject;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.XSDSchemaExtensibilityElement;
import org.eclipse.xsd.XSDSchema;
import org.eclipse.xsd.util.XSDSchemaLocator;
```

```
public class XSDSchemaLocatorImpl extends AdapterImpl implements XSDSchemaLocator
{
    /**
     * @see org.eclipse.xsd.util.XSDSchemaLocator#locateSchema(org.eclipse.xsd.XSDSchema,
     *   java.lang.String, java.lang.String, java.lang.String)
     */
    public XSDSchema locateSchema(XSDSchema xsdSchema, String namespaceURI, String
    rawSchemaLocationURI, String resolvedSchemaLocationURI)
    {
        XSDSchema resolvedSchema = null;

        // Bugzilla 122624: WSDL model does not resolve <import> of inline schema with no namespace.
        // KB: We are not resolving <import>ed or <include>d schemas from the root inline schemas.
        // In other words, since we are resolving only between multiple root inline schemas,
        // do not attempt to resolve if "rawSchemaLocationURI" is not null.
        if (namespaceURI != null && rawSchemaLocationURI == null)
        {
            Definition definition = null;

            for (EObject parent = xsdSchema.eContainer(); parent != null; parent = parent.eContainer())
            {
                if (parent instanceof Definition)
                {
                    definition = (Definition)parent;
                    break;
                }
            }
        }
    }
}

```

```

if (definition != null && definition.getETypes() != null)
{
    for (Iterator i = definition.getETypes().getEExtensibilityElements().iterator(); i.hasNext(); )
    {
        Object o = i.next();
        if (o instanceof XSDSchemaExtensibilityElement)
        {
            XSDSchema schema = ((XSDSchemaExtensibilityElement)o).getSchema();
            if (schema != null && namespaceURI.equals(schema.getTargetNamespace()))
            {
                resolvedSchema = schema;
                break;
            }
        }
    }
}
return resolvedSchema;
}

public boolean isAdatperForType(Object type)
{
    return type == XSDSchemaLocator.class;
}
}

/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

import javax.wsdl.OperationType;
import javax.wsdl.WSDLException;
import javax.xml.namespace.QName;

import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EDataType;
import org.eclipse.emf.ecore.EObject;
import org.eclipse.emf.ecore.EPackage;
import org.eclipse.emf.ecore.impl.EFactoryImpl;

```

```

import org.eclipse.emf.ecore.plugin.EcorePlugin;
import org.eclipse.wst.wsdl.Binding;
import org.eclipse.wst.wsdl.BindingFault;
import org.eclipse.wst.wsdl.BindingInput;
import org.eclipse.wst.wsdl.BindingOperation;
import org.eclipse.wst.wsdl.BindingOutput;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.Fault;
import org.eclipse.wst.wsdl.Import;
import org.eclipse.wst.wsdl.Input;
import org.eclipse.wst.wsdl.Message;
import org.eclipse.wst.wsdl.Namespace;
import org.eclipse.wst.wsdl.Operation;
import org.eclipse.wst.wsdl.Output;
import org.eclipse.wst.wsdl.Part;
import org.eclipse.wst.wsdl.Port;
import org.eclipse.wst.wsdl.PortType;
import org.eclipse.wst.wsdl.Service;
import org.eclipse.wst.wsdl.Types;
import org.eclipse.wst.wsdl.UnknownExtensibilityElement;
import org.eclipse.wst.wsdl.WSDLFactory;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.WSDLPlugin;
import org.eclipse.wst.wsdl.XSDSchemaExtensibilityElement;
import org.eclipse.wst.wsdl.util.ExtensibilityElementFactory;
import org.w3c.dom.Document;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model <b>Factory</b>.
 * <!-- end-user-doc -->
 * @generated
 */
public class WSDLFactoryImpl extends EFactoryImpl implements WSDLFactory
{
    /**
     * Creates the default factory implementation.
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    public static WSDLFactory init()
    {
        try
        {

```

```

    WSDLFactory theWSDLFactory =
(WSDLFactory)EPackage.Registry.INSTANCE.getEFactory("http://www.eclipse.org/wsdl/2003/WSDL"); //$NON-
NLS-1$
    if (theWSDLFactory != null)
    {
        return theWSDLFactory;
    }
}
catch (Exception exception)
{
    EcorePlugin.INSTANCE.log(exception);
}
return new WSDLFactoryImpl();
}

/**
 * Creates an instance of the factory.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public WSDLFactoryImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EObject create(EClass eClass)
{
    switch (eClass.getClassifierID())
    {
        case WSDLPackage.PORT_TYPE:
            return createPortType();
        case WSDLPackage.OPERATION:
            return createOperation();
        case WSDLPackage.MESSAGE:
            return createMessage();
        case WSDLPackage.PART:
            return createPart();
        case WSDLPackage.BINDING:
            return createBinding();
        case WSDLPackage.BINDING_OPERATION:
            return createBindingOperation();
        case WSDLPackage.SERVICE:

```

```

return createService();
case WSDLPackage.PORT:
return createPort();
case WSDLPackage.EXTENSIBILITY_ELEMENT:
return createExtensibilityElement();
case WSDLPackage.DEFINITION:
return createDefinition();
case WSDLPackage.IMPORT:
return createImport();
case WSDLPackage.INPUT:
return createInput();
case WSDLPackage.OUTPUT:
return createOutput();
case WSDLPackage.FAULT:
return createFault();
case WSDLPackage.BINDING_INPUT:
return createBindingInput();
case WSDLPackage.BINDING_OUTPUT:
return createBindingOutput();
case WSDLPackage.BINDING_FAULT:
return createBindingFault();
case WSDLPackage.NAMESPACE:
return createNamespace();
case WSDLPackage.TYPES:
return createTypes();
case WSDLPackage.UNKNOWN_EXTENSIBILITY_ELEMENT:
return createUnknownExtensibilityElement();
case WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT:
return createXSDSchemaExtensibilityElement();
default:
throw new IllegalArgumentException("The class '" + eClass.getName() + "' is not a valid classifier"); //$NON-
NLS-1$ //$NON-NLS-2$
}
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object createFromString(EDataType eDataType, String initialValue)
{
switch (eDataType.getClassifierID())
{
case WSDLPackage.QNAME:
return createQNameFromString(eDataType, initialValue);
case WSDLPackage.OPERATION_TYPE:
return createOperationTypeFromString(eDataType, initialValue);

```

```

    case WSDLPackage.DOM_ELEMENT:
    return createDOMElementFromString(eDataType, initialValue);
    case WSDLPackage.WSDL_EXCEPTION:
    return createWSDLExceptionFromString(eDataType, initialValue);
    case WSDLPackage.DOM_DOCUMENT:
    return createDOMDocumentFromString(eDataType, initialValue);
    default:
    throw new IllegalArgumentException("The datatype '" + eDataType.getName() + "' is not a valid classifier");
//$NON-NLS-1$ //$NON-NLS-2$
    }
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String convertToString(EDatatype eDataType, Object instanceValue)
{
    switch (eDataType.getClassifierID())
    {
        case WSDLPackage.QNAME:
        return convertQNameToString(eDataType, instanceValue);
        case WSDLPackage.OPERATION_TYPE:
        return convertOperationTypeToString(eDataType, instanceValue);
        case WSDLPackage.DOM_ELEMENT:
        return convertDOMElementToString(eDataType, instanceValue);
        case WSDLPackage.WSDL_EXCEPTION:
        return convertWSDLExceptionToString(eDataType, instanceValue);
        case WSDLPackage.DOM_DOCUMENT:
        return convertDOMDocumentToString(eDataType, instanceValue);
        default:
        throw new IllegalArgumentException("The datatype '" + eDataType.getName() + "' is not a valid classifier");
//$NON-NLS-1$ //$NON-NLS-2$
    }
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public PortType createPortType()
{
    PortTypeImpl portType = new PortTypeImpl();
    return portType;
}

```



```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Operation createOperation()
{
    OperationImpl operation = new OperationImpl();
    return operation;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Message createMessage()
{
    MessageImpl message = new MessageImpl();
    return message;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Part createPart()
{
    PartImpl part = new PartImpl();
    return part;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Binding createBinding()
{
    BindingImpl binding = new BindingImpl();
    return binding;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public BindingOperation createBindingOperation()
{
    BindingOperationImpl bindingOperation = new BindingOperationImpl();
    return bindingOperation;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Service createService()
{
    ServiceImpl service = new ServiceImpl();
    return service;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Port createPort()
{
    PortImpl port = new PortImpl();
    return port;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public ExtensibilityElement createExtensibilityElement()
{
    ExtensibilityElementImpl extensibilityElement = new ExtensibilityElementImpl();
    return extensibilityElement;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Definition createDefinition()
{
    DefinitionImpl definition = new DefinitionImpl();

```

```

    return definition;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Import createImport()
{
    ImportImpl import_ = new ImportImpl();
    return import_;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Input createInput()
{
    InputImpl input = new InputImpl();
    return input;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Output createOutput()
{
    OutputImpl output = new OutputImpl();
    return output;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Fault createFault()
{
    FaultImpl fault = new FaultImpl();
    return fault;
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public BindingInput createBindingInput()
{
    BindingInputImpl bindingInput = new BindingInputImpl();
    return bindingInput;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public BindingOutput createBindingOutput()
{
    BindingOutputImpl bindingOutput = new BindingOutputImpl();
    return bindingOutput;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public BindingFault createBindingFault()
{
    BindingFaultImpl bindingFault = new BindingFaultImpl();
    return bindingFault;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public Namespace createNamespace()
{
    NamespaceImpl namespace = new NamespaceImpl();
    return namespace;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/

```

```

public Types createTypes()
{
    TypesImpl types = new TypesImpl();
    return types;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public UnknownExtensibilityElement createUnknownExtensibilityElement()
{
    UnknownExtensibilityElementImpl unknownExtensibilityElement = new UnknownExtensibilityElementImpl();
    return unknownExtensibilityElement;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public XSDSchemaExtensibilityElement createXSDSchemaExtensibilityElement()
{
    XSDSchemaExtensibilityElementImpl xsdSchemaExtensibilityElement = new
XSDSchemaExtensibilityElementImpl();
    return xsdSchemaExtensibilityElement;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public QName createQNameFromString(EDatatype eDataType, String initialValue)
{
    return (QName)super.createFromString(eDataType, initialValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String convertQNameToString(EDatatype eDataType, Object instanceValue)
{
    return super.convertToString(eDataType, instanceValue);
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public OperationType createOperationTypeFromString(EDataType eDataType, String initialValue)
{
    if ("REQUEST_RESPONSE".equals(initialValue))
    {
        return OperationType.REQUEST_RESPONSE;
    }
    else if ("ONE_WAY".equals(initialValue))
    {
        return OperationType.ONE_WAY;
    }
    else if ("NOTIFICATION".equals(initialValue))
    {
        return OperationType.NOTIFICATION;
    }
    else if ("SOLICIT_RESPONSE".equals(initialValue))
    {
        return OperationType.SOLICIT_RESPONSE;
    }
    return null;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String convertOperationTypeToString(EDataType eDataType, Object instanceValue)
{
    return super.convertToString(eDataType, instanceValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Element createDOMEElementFromString(EDataType eDataType, String initialValue)
{
    return (Element)super.createFromString(eDataType, initialValue);
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String convertDOMElementToString(EDataType eDataType, Object instanceValue)
{
    return super.convertToString(eDataType, instanceValue);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public WSDLException createWSDLExceptionFromString(EDataType eDataType, String initialValue)
{
    return (WSDLException)super.createFromString(eDataType, initialValue);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String convertWSDLExceptionToString(EDataType eDataType, Object instanceValue)
{
    return super.convertToString(eDataType, instanceValue);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public Document createDOMDocumentFromString(EDataType eDataType, String initialValue)
{
    return (Document)super.createFromString(eDataType, initialValue);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String convertDOMDocumentToString(EDataType eDataType, Object instanceValue)
{
    return super.convertToString(eDataType, instanceValue);
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public WSDLPackage getWSDLPackage()
{
    return (WSDLPackage)getEPackage();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @deprecated
 * @generated
 */
public static WSDLPackage getPackage()
{
    return WSDLPackage.eINSTANCE;
}

//
//
//
public ExtensibilityElement createExtensibilityElement(String namespace, String localName)
{
    ExtensibilityElementFactory factory = WSDLPlugin.INSTANCE.getExtensibilityElementFactory(namespace);
    if (factory != null)
        return factory.createExtensibilityElement(namespace, localName);
    else
    {
        ExtensibilityElement extensibilityElement = createUnknownExtensibilityElement();
        // Provide some information about the extensibility element.

        QName elementType = new QName(namespace, localName);
        extensibilityElement.setElementType(elementType);
        return extensibilityElement;
    }
}

/**
public void setAlwaysUseUnknownExtensibilityElement(boolean value)
{
    System.out.println("Deprecated: WSDLFactoryImpl.setUseExtensionFactories");
}
*/
} //WSDLFactoryImpl

```



```

/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

```

```

import java.net.URL;
import java.util.Iterator;
import java.util.List;
import java.util.Map;

```

```

import javax.wsdl.OperationType;
import javax.wsdl.WSDLException;
import javax.wsdl.extensions.AttributeExtensible;
import javax.wsdl.extensions.ElementExtensible;
import javax.wsdl.extensions.ExtensionRegistry;
import javax.wsdl.extensions.schema.Schema;
import javax.xml.namespace.QName;

```

```

import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EDataType;
import org.eclipse.emf.ecore.EOperation;
import org.eclipse.emf.ecore.EPackage;
import org.eclipse.emf.ecore.EReference;
import org.eclipse.emf.ecore.impl.EPackageImpl;
import org.eclipse.wst.wsdl.Binding;
import org.eclipse.wst.wsdl.BindingFault;
import org.eclipse.wst.wsdl.BindingInput;
import org.eclipse.wst.wsdl.BindingOperation;
import org.eclipse.wst.wsdl.BindingOutput;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.ExtensibleElement;
import org.eclipse.wst.wsdl.Fault;
import org.eclipse.wst.wsdl.Import;
import org.eclipse.wst.wsdl.Input;
import org.eclipse.wst.wsdl.Message;
import org.eclipse.wst.wsdl.MessageReference;
import org.eclipse.wst.wsdl.Namespace;
import org.eclipse.wst.wsdl.Operation;

```

```

import org.eclipse.wst.wsdl.Output;
import org.eclipse.wst.wsdl.Part;
import org.eclipse.wst.wsdl.Port;
import org.eclipse.wst.wsdl.PortType;
import org.eclipse.wst.wsdl.Service;
import org.eclipse.wst.wsdl.Types;
import org.eclipse.wst.wsdl.UnknownExtensibilityElement;
import org.eclipse.wst.wsdl.WSDLElement;
import org.eclipse.wst.wsdl.WSDLFactory;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.XSDSchemaExtensibilityElement;
import org.eclipse.xsd.XSDPackage;
import org.w3c.dom.Document;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model <b>Package</b>.
 * <!-- end-user-doc -->
 * @generated
 */
public class WSDLPackageImpl extends EPackageImpl implements WSDLPackage
{
    /**
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    private EClass wsdlElementEClass = null;

    /**
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    private EClass portTypeEClass = null;

    /**
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    private EClass operationEClass = null;

    /**
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->

```

```

* @generated
*/
private EClass messageEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass partEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass bindingEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass bindingOperationEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass serviceEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass portEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass extensibilityElementEClass = null;

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
private EClass definitionEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass importEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass extensibleElementEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass inputEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass outputEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass faultEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass bindingInputEClass = null;

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass bindingOutputEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass bindingFaultEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass namespaceEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass iPortTypeEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass iOperationEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass iInputEClass = null;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
private EClass iOutputEClass = null;

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iFaultEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iMessageEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iPartEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iServiceEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iPortEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iBindingEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iBindingOperationEClass = null;

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iBindingInputEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iBindingOutputEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iBindingFaultEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iExtensibilityElementEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iDefinitionEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iImportEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

private EClass iListEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iMapEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iurlEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iExtensionRegistryEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass typesEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iIteratorEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iTypesEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```



```

*/
private EClass unknownExtensibilityElementEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass xsdSchemaExtensibilityElementEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass messageReferenceEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iElementExtensibleEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iAttributeExtensibleEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iObjectEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EClass iSchemaEClass = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated
*/
private EDataType QNameEDataType = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EDataType operationTypeEDataType = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EDataType domElementEDataType = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EDataType wsdlExceptionEDataType = null;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private EDataType domDocumentEDataType = null;

/**
 * Creates an instance of the model <b>Package</b>, registered with
 * { @link org.eclipse.emf.ecore.EPackage.Registry EPackage.Registry } by the package
 * package URI value.
 * <p>Note: the correct way to create the package is via the static
 * factory method { @link #init init() }, which also performs
 * initialization of the package, or returns the registered package,
 * if one already exists.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see org.eclipse.emf.ecore.EPackage.Registry
 * @see org.eclipse.wst.wsdl.WSDLPackage#eNS_URI
 * @see #init()
 * @generated
 */
private WSDLPackageImpl()

```

```

{
    super(eNS_URI, WSDLFactory.eINSTANCE);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private static boolean isInitied = false;

/**
 * Creates, registers, and initializes the <b>Package</b> for this
 * model, and for any others upon which it depends. Simple
 * dependencies are satisfied by calling this method on all
 * dependent packages before doing anything else. This method drives
 * initialization for interdependent packages directly, in parallel
 * with this package, itself.
 * <p>Of this package and its interdependencies, all packages which
 * have not yet been registered by their URI values are first created
 * and registered. The packages are then initialized in two steps:
 * meta-model objects for all of the packages are created before any
 * are initialized, since one package's meta-model objects may refer to
 * those of another.
 * <p>Invocation of this method will not affect any packages that have
 * already been initialized.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #eNS_URI
 * @see #createPackageContents()
 * @see #initializePackageContents()
 * @generated
 */
public static WSDLPackage init()
{
    if (isInitied)
        return (WSDLPackage)EPackage.Registry.INSTANCE.getEPackage(WSDLPackage.eNS_URI);

    // Obtain or create and register package
    WSDLPackageImpl theWSDLPackage =
(WSDLPackageImpl)(EPackage.Registry.INSTANCE.getEPackage(eNS_URI) instanceof WSDLPackageImpl
    ? EPackage.Registry.INSTANCE.getEPackage(eNS_URI) : new WSDLPackageImpl());

    isInitied = true;

    // Initialize simple dependencies
    XSDPackage.eINSTANCE.eClass();
}

```

```

// Create package meta-data objects
theWSDLPackage.createPackageContents();

// Initialize created meta-data
theWSDLPackage.initializePackageContents();

// Mark meta-data to indicate it can't be changed
theWSDLPackage.freeze();

return theWSDLPackage;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getWSDLElement()
{
    return wsdlElementEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getWSDLElement_DocumentationElement()
{
    return (EAttribute)wsdlElementEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getWSDLElement_Element()
{
    return (EAttribute)wsdlElementEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getPortType()

```

```

{
    return portTypeEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getPortType_QName()
{
    return (EAttribute)portTypeEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getPortType_Undefined()
{
    return (EAttribute)portTypeEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getPortType_EOperations()
{
    return (EReference)portTypeEClass.getEStructuralFeatures().get(2);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getOperation()
{
    return operationEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public EAttribute getOperation_Style()
{
    return (EAttribute)operationEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getOperation_Name()
{
    return (EAttribute)operationEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getOperation_Undefined()
{
    return (EAttribute)operationEClass.getEStructuralFeatures().get(2);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getOperation_EInput()
{
    return (EReference)operationEClass.getEStructuralFeatures().get(3);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getOperation_EOutput()
{
    return (EReference)operationEClass.getEStructuralFeatures().get(4);
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public EReference getOperation_EFaults()
{
    return (EReference)operationEClass.getEStructuralFeatures().get(5);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EReference getOperation_EParameterOrdering()
{
    return (EReference)operationEClass.getEStructuralFeatures().get(6);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getMessage()
{
    return messageEClass;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EAttribute getMessage_QName()
{
    return (EAttribute)messageEClass.getEStructuralFeatures().get(0);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EAttribute getMessage_Undefined()
{
    return (EAttribute)messageEClass.getEStructuralFeatures().get(1);
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getMessage_EParts()
{
    return (EReference)messageEClass.getEStructuralFeatures().get(2);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getPart()
{
    return partEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getPart_Name()
{
    return (EAttribute)partEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getPart_ElementName()
{
    return (EAttribute)partEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getPart_TypeName()
{
    return (EAttribute)partEClass.getEStructuralFeatures().get(2);
}

```



```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getPart_TypeDefinition()
{
    return (EReference)partEClass.getEStructuralFeatures().get(3);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getPart_ElementDeclaration()
{
    return (EReference)partEClass.getEStructuralFeatures().get(4);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getPart_EMessage()
{
    return (EReference)partEClass.getEStructuralFeatures().get(5);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getBinding()
{
    return bindingEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getBinding_QName()

```

```

{
    return (EAttribute)bindingEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getBinding_Undefined()
{
    return (EAttribute)bindingEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getBinding_EPortType()
{
    return (EReference)bindingEClass.getEStructuralFeatures().get(2);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getBinding_EBindingOperations()
{
    return (EReference)bindingEClass.getEStructuralFeatures().get(3);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getBindingOperation()
{
    return bindingOperationEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public EAttribute getBindingOperation_Name()
{
    return (EAttribute)bindingOperationEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getBindingOperation_EOperation()
{
    return (EReference)bindingOperationEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getBindingOperation_EBindingInput()
{
    return (EReference)bindingOperationEClass.getEStructuralFeatures().get(2);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getBindingOperation_EBindingOutput()
{
    return (EReference)bindingOperationEClass.getEStructuralFeatures().get(3);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getBindingOperation_EBindingFaults()
{
    return (EReference)bindingOperationEClass.getEStructuralFeatures().get(4);
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public EClass getService()
{
    return serviceEClass;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EAttribute getService_QName()
{
    return (EAttribute)serviceEClass.getEStructuralFeatures().get(0);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EAttribute getService_Undefined()
{
    return (EAttribute)serviceEClass.getEStructuralFeatures().get(1);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EReference getService_EPorts()
{
    return (EReference)serviceEClass.getEStructuralFeatures().get(2);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getPort()
{
    return portEClass;
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getPort_Name()
{
    return (EAttribute)portEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getPort_EBinding()
{
    return (EReference)portEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getExtensibilityElement()
{
    return extensibilityElementEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getExtensibilityElement_Required()
{
    return (EAttribute)extensibilityElementEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getExtensibilityElement_ElementType()
{
    return (EAttribute)extensibilityElementEClass.getEStructuralFeatures().get(1);
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getDefinition()
{
    return definitionEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getDefinition_TargetNamespace()
{
    return (EAttribute)definitionEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getDefinition_Location()
{
    return (EAttribute)definitionEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getDefinition_QName()
{
    return (EAttribute)definitionEClass.getEStructuralFeatures().get(2);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getDefinition_Encoding()

```

```

{
    return (EAttribute)definitionEClass.getEStructuralFeatures().get(3);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getDefinition_EMessages()
{
    return (EReference)definitionEClass.getEStructuralFeatures().get(6);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getDefinition_EPortTypes()
{
    return (EReference)definitionEClass.getEStructuralFeatures().get(7);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getDefinition_EBindings()
{
    return (EReference)definitionEClass.getEStructuralFeatures().get(8);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getDefinition_EServices()
{
    return (EReference)definitionEClass.getEStructuralFeatures().get(9);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public EReference getDefinition_ENamespaces()
{
    return (EReference)definitionEClass.getEStructuralFeatures().get(10);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getDefinition_ETypes()
{
    return (EReference)definitionEClass.getEStructuralFeatures().get(5);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getDefinition_EImports()
{
    return (EReference)definitionEClass.getEStructuralFeatures().get(4);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getImport()
{
    return importEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getImport_NamespaceURI()
{
    return (EAttribute)importEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->

```



```

* <!-- end-user-doc -->
* @generated
*/
public EAttribute getImport_LocationURI()
{
    return (EAttribute)importEClass.getEStructuralFeatures().get(1);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EReference getImport_EDefinition()
{
    return (EReference)importEClass.getEStructuralFeatures().get(2);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EReference getImport_ESchema()
{
    return (EReference)importEClass.getEStructuralFeatures().get(3);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getExtensibleElement()
{
    return extensibleElementEClass;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EReference getExtensibleElement_EExtensibilityElements()
{
    return (EReference)extensibleElementEClass.getEStructuralFeatures().get(0);
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getInput()
{
    return inputEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getOutput()
{
    return outputEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getFault()
{
    return faultEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getBindingInput()
{
    return bindingInputEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getBindingInput_Name()
{
    return (EAttribute)bindingInputEClass.getEStructuralFeatures().get(0);
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getBindingInput_EInput()
{
    return (EReference)bindingInputEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getBindingOutput()
{
    return bindingOutputEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getBindingOutput_Name()
{
    return (EAttribute)bindingOutputEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getBindingOutput_EOutput()
{
    return (EReference)bindingOutputEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getBindingFault()

```

```

{
    return bindingFaultEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getBindingFault_Name()
{
    return (EAttribute)bindingFaultEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getBindingFault_EFault()
{
    return (EReference)bindingFaultEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getNamespace()
{
    return namespaceEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getNamespace_URI()
{
    return (EAttribute)namespaceEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public EAttribute getNamespace_Prefix()
{
    return (EAttribute)namespaceEClass.getEStructuralFeatures().get(1);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIPortType()
{
    return iPortTypeEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIOperation()
{
    return iOperationEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIInput()
{
    return iInputEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIOutput()
{
    return iOutputEClass;
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public EClass getIFault()
{
    return iFaultEClass;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getIMessage()
{
    return iMessageEClass;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getIPart()
{
    return iPartEClass;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getIService()
{
    return iServiceEClass;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getIPort()
{
    return iPortEClass;
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIBinding()
{
    return iBindingEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIBindingOperation()
{
    return iBindingOperationEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIBindingInput()
{
    return iBindingInputEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIBindingOutput()
{
    return iBindingOutputEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIBindingFault()
{
    return iBindingFaultEClass;
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIExtensibilityElement()
{
    return iExtensibilityElementEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIDefinition()
{
    return iDefinitionEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIImport()
{
    return iImportEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIList()
{
    return iListEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIMap()

```



```

{
    return iMapEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIURL()
{
    return iurlEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIExtensionRegistry()
{
    return iExtensionRegistryEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getTypes()
{
    return typesEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIIterator()
{
    return iIteratorEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public EClass getITypes()
{
    return iTypesEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getUnknownExtensibilityElement()
{
    return unknownExtensibilityElementEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EReference getUnknownExtensibilityElement_Children()
{
    return (EReference)unknownExtensibilityElementEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getXSDSchemaExtensibilityElement()
{
    return xsdSchemaExtensibilityElementEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EAttribute getXSDSchemaExtensibilityElement_DocumentBaseURI()
{
    return (EAttribute)xsdSchemaExtensibilityElementEClass.getEStructuralFeatures().get(0);
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public EReference getXSDSchemaExtensibilityElement_Schema()
{
    return (EReference)xsdSchemaExtensibilityElementEClass.getEStructuralFeatures().get(1);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getMessageReference()
{
    return messageReferenceEClass;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EAttribute getMessageReference_Name()
{
    return (EAttribute)messageReferenceEClass.getEStructuralFeatures().get(0);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EReference getMessageReference_EMessage()
{
    return (EReference)messageReferenceEClass.getEStructuralFeatures().get(1);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EClass getIElementExtensible()
{
    return iElementExtensibleEClass;
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIAttributeExtensible()
{
    return iAttributeExtensibleEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getIObject()
{
    return iObjectEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EClass getISchema()
{
    return iSchemaEClass;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EDataType getQName()
{
    return qNameEDataType;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EDataType getOperationType()
{
    return operationTypeEDataType;
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EDataType getDOMELEMENT()
{
    return domElementEDataType;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EDataType getWSDLException()
{
    return wsdlExceptionEDataType;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EDataType getDOMDocument()
{
    return domDocumentEDataType;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public WSDLFactory getWSDLFactory()
{
    return (WSDLFactory)getEFactoryInstance();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private boolean isCreated = false;

```

```

/**
 * Creates the meta-model objects for the package. This method is
 * guarded to have no affect on any invocation but its first.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void createPackageContents()
{
    if (isCreated)
        return;
    isCreated = true;

    // Create classes and their features
    wsdlElementEClass = createEClass(WSDL_ELEMENT);
    createEAttribute(wsdlElementEClass, WSDL_ELEMENT__DOCUMENTATION_ELEMENT);
    createEAttribute(wsdlElementEClass, WSDL_ELEMENT__ELEMENT);

    portTypeEClass = createEClass(PORT_TYPE);
    createEAttribute(portTypeEClass, PORT_TYPE__QNAME);
    createEAttribute(portTypeEClass, PORT_TYPE__UNDEFINED);
    createEReference(portTypeEClass, PORT_TYPE__EOPERATIONS);

    operationEClass = createEClass(OPERATION);
    createEAttribute(operationEClass, OPERATION__STYLE);
    createEAttribute(operationEClass, OPERATION__NAME);
    createEAttribute(operationEClass, OPERATION__UNDEFINED);
    createEReference(operationEClass, OPERATION__EINPUT);
    createEReference(operationEClass, OPERATION__EOUTPUT);
    createEReference(operationEClass, OPERATION__EFAULTS);
    createEReference(operationEClass, OPERATION__EPARAMETER_ORDERING);

    messageEClass = createEClass(MESSAGE);
    createEAttribute(messageEClass, MESSAGE__QNAME);
    createEAttribute(messageEClass, MESSAGE__UNDEFINED);
    createEReference(messageEClass, MESSAGE__EPARTS);

    partEClass = createEClass(PART);
    createEAttribute(partEClass, PART__NAME);
    createEAttribute(partEClass, PART__ELEMENT_NAME);
    createEAttribute(partEClass, PART__TYPE_NAME);
    createEReference(partEClass, PART__TYPE_DEFINITION);
    createEReference(partEClass, PART__ELEMENT_DECLARATION);
    createEReference(partEClass, PART__EMESSAGE);

    bindingEClass = createEClass(BINDING);
    createEAttribute(bindingEClass, BINDING__QNAME);

```

```

createEAttribute(bindingEClass, BINDING__UNDEFINED);
createEReference(bindingEClass, BINDING__EPORT_TYPE);
createEReference(bindingEClass, BINDING__EBINDING_OPERATIONS);

bindingOperationEClass = createEClass(BINDING_OPERATION);
createEAttribute(bindingOperationEClass, BINDING_OPERATION__NAME);
createEReference(bindingOperationEClass, BINDING_OPERATION__EOPERATION);
createEReference(bindingOperationEClass, BINDING_OPERATION__EBINDING_INPUT);
createEReference(bindingOperationEClass, BINDING_OPERATION__EBINDING_OUTPUT);
createEReference(bindingOperationEClass, BINDING_OPERATION__EBINDING_FAULTS);

serviceEClass = createEClass(SERVICE);
createEAttribute(serviceEClass, SERVICE__QNAME);
createEAttribute(serviceEClass, SERVICE__UNDEFINED);
createEReference(serviceEClass, SERVICE__EPORTS);

portEClass = createEClass(PORT);
createEAttribute(portEClass, PORT__NAME);
createEReference(portEClass, PORT__EBINDING);

extensibilityElementEClass = createEClass(EXTENSIBILITY_ELEMENT);
createEAttribute(extensibilityElementEClass, EXTENSIBILITY_ELEMENT__REQUIRED);
createEAttribute(extensibilityElementEClass, EXTENSIBILITY_ELEMENT__ELEMENT_TYPE);

definitionEClass = createEClass(DEFINITION);
createEAttribute(definitionEClass, DEFINITION__TARGET_NAMESPACE);
createEAttribute(definitionEClass, DEFINITION__LOCATION);
createEAttribute(definitionEClass, DEFINITION__QNAME);
createEAttribute(definitionEClass, DEFINITION__ENCODING);
createEReference(definitionEClass, DEFINITION__EIMPORTS);
createEReference(definitionEClass, DEFINITION__ETYPES);
createEReference(definitionEClass, DEFINITION__EMESSAGES);
createEReference(definitionEClass, DEFINITION__EPORT_TYPES);
createEReference(definitionEClass, DEFINITION__EBINDINGS);
createEReference(definitionEClass, DEFINITION__ESERVICES);
createEReference(definitionEClass, DEFINITION__ENAMESPACES);

importEClass = createEClass(IMPORT);
createEAttribute(importEClass, IMPORT__NAMESPACE_URI);
createEAttribute(importEClass, IMPORT__LOCATION_URI);
createEReference(importEClass, IMPORT__EDEFINITION);
createEReference(importEClass, IMPORT__ESCHEMA);

extensibleElementEClass = createEClass(EXTENSIBLE_ELEMENT);
createEReference(extensibleElementEClass, EXTENSIBLE_ELEMENT__EEXTENSIBILITY_ELEMENTS);

inputEClass = createEClass(INPUT);

```

```
outputEClass = createEClass(OUTPUT);

faultEClass = createEClass(FAULT);

bindingInputEClass = createEClass(BINDING_INPUT);
createEAttribute(bindingInputEClass, BINDING_INPUT__NAME);
createEReference(bindingInputEClass, BINDING_INPUT__EINPUT);

bindingOutputEClass = createEClass(BINDING_OUTPUT);
createEAttribute(bindingOutputEClass, BINDING_OUTPUT__NAME);
createEReference(bindingOutputEClass, BINDING_OUTPUT__EOUTPUT);

bindingFaultEClass = createEClass(BINDING_FAULT);
createEAttribute(bindingFaultEClass, BINDING_FAULT__NAME);
createEReference(bindingFaultEClass, BINDING_FAULT__EFAULT);

namespaceEClass = createEClass(NAMESPACE);
createEAttribute(namespaceEClass, NAMESPACE__URI);
createEAttribute(namespaceEClass, NAMESPACE__PREFIX);

iPortTypeEClass = createEClass(IPORT_TYPE);

iOperationEClass = createEClass(IOPERATION);

iInputEClass = createEClass(IINPUT);

iOutputEClass = createEClass(IOOUTPUT);

iFaultEClass = createEClass(IFAULT);

iMessageEClass = createEClass(IMESSAGE);

iPartEClass = createEClass(IPART);

iServiceEClass = createEClass(ISERVICE);

iPortEClass = createEClass(IPORT);

iBindingEClass = createEClass(IBINDING);

iBindingOperationEClass = createEClass(IBINDING_OPERATION);

iBindingInputEClass = createEClass(IBINDING_INPUT);

iBindingOutputEClass = createEClass(IBINDING_OUTPUT);

iBindingFaultEClass = createEClass(IBINDING_FAULT);
```



```

iExtensibilityElementEClass = createEClass(IEXTENSIBILITY_ELEMENT);

iDefinitionEClass = createEClass(IDEFINITION);

iImportEClass = createEClass(IIMPORT);

iListEClass = createEClass(ILIST);

iMapEClass = createEClass(IMAP);

iurlEClass = createEClass(IURL);

iExtensionRegistryEClass = createEClass(IEXTENSION_REGISTRY);

typesEClass = createEClass(TYPES);

iIteratorEClass = createEClass(IITERATOR);

iTypesEClass = createEClass(ITYPES);

unknownExtensibilityElementEClass = createEClass(UNKNOWN_EXTENSIBILITY_ELEMENT);
createEReference(unknownExtensibilityElementEClass,
UNKNOWN_EXTENSIBILITY_ELEMENT__CHILDREN);

xsdSchemaExtensibilityElementEClass = createEClass(XSD_SCHEMA_EXTENSIBILITY_ELEMENT);
createEAttribute(xsdSchemaExtensibilityElementEClass,
XSD_SCHEMA_EXTENSIBILITY_ELEMENT__DOCUMENT_BASE_URI);
createEReference(xsdSchemaExtensibilityElementEClass,
XSD_SCHEMA_EXTENSIBILITY_ELEMENT__SCHEMA);

messageReferenceEClass = createEClass(MESSAGE_REFERENCE);
createEAttribute(messageReferenceEClass, MESSAGE_REFERENCE__NAME);
createEReference(messageReferenceEClass, MESSAGE_REFERENCE__EMESSAGE);

iElementExtensibleEClass = createEClass(IELEMENT_EXTENSIBLE);

iAttributeExtensibleEClass = createEClass(IATTRIBUTE_EXTENSIBLE);

iObjectEClass = createEClass(IOBJECT);

iSchemaEClass = createEClass(ISCHEMA);

// Create data types
qNameEDataType = createEDataType(QNAME);
operationTypeEDataType = createEDataType(OPERATION_TYPE);
domElementEDataType = createEDataType(DOM_ELEMENT);
wsdlExceptionEDataType = createEDataType(WSDL_EXCEPTION);
domDocumentEDataType = createEDataType(DOM_DOCUMENT);

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
private boolean isInitialized = false;

/**
 * Complete the initialization of the package and its meta-model. This
 * method is guarded to have no affect on any invocation but its first.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void initializePackageContents()
{
    if (isInitialized)
        return;
    isInitialized = true;

    // Initialize package
    setName(eNAME);
    setNsPrefix(eNS_PREFIX);
    setNsURI(eNS_URI);

    // Obtain other dependent packages
    XSDPackage theXSDPackage =
(XSDPackage)EPackage.Registry.INSTANCE.getEPackage(XSDPackage.eNS_URI);

    // Add supertypes to classes
    portTypeEClass.getESuperTypes().add(this.getExtensibleElement());
    portTypeEClass.getESuperTypes().add(this.getIPortType());
    operationEClass.getESuperTypes().add(this.getExtensibleElement());
    operationEClass.getESuperTypes().add(this.getIOperation());
    messageEClass.getESuperTypes().add(this.getExtensibleElement());
    messageEClass.getESuperTypes().add(this.getIMessage());
    partEClass.getESuperTypes().add(this.getExtensibleElement());
    partEClass.getESuperTypes().add(this.getIPart());
    bindingEClass.getESuperTypes().add(this.getExtensibleElement());
    bindingEClass.getESuperTypes().add(this.getIBinding());
    bindingOperationEClass.getESuperTypes().add(this.getExtensibleElement());
    bindingOperationEClass.getESuperTypes().add(this.getIBindingOperation());
    serviceEClass.getESuperTypes().add(this.getExtensibleElement());
    serviceEClass.getESuperTypes().add(this.getIService());
    portEClass.getESuperTypes().add(this.getExtensibleElement());
    portEClass.getESuperTypes().add(this.getIPort());

```

```

extensibilityElementEClass.getESuperTypes().add(this.getWSDL_Element());
extensibilityElementEClass.getESuperTypes().add(this.getIExtensibilityElement());
definitionEClass.getESuperTypes().add(this.getExtensibleElement());
definitionEClass.getESuperTypes().add(this.getIdentification());
importEClass.getESuperTypes().add(this.getExtensibleElement());
importEClass.getESuperTypes().add(this.getIImport());
extensibleElementEClass.getESuperTypes().add(this.getWSDL_Element());
extensibleElementEClass.getESuperTypes().add(this.getIElementExtensible());
extensibleElementEClass.getESuperTypes().add(this.getIAttributeExtensible());
inputEClass.getESuperTypes().add(this.getMessageReference());
inputEClass.getESuperTypes().add(this.getIInput());
outputEClass.getESuperTypes().add(this.getMessageReference());
outputEClass.getESuperTypes().add(this.getIOutput());
faultEClass.getESuperTypes().add(this.getMessageReference());
faultEClass.getESuperTypes().add(this.getIFault());
bindingInputEClass.getESuperTypes().add(this.getExtensibleElement());
bindingInputEClass.getESuperTypes().add(this.getIBindingInput());
bindingOutputEClass.getESuperTypes().add(this.getExtensibleElement());
bindingOutputEClass.getESuperTypes().add(this.getIBindingOutput());
bindingFaultEClass.getESuperTypes().add(this.getExtensibleElement());
bindingFaultEClass.getESuperTypes().add(this.getIBindingFault());
iPortTypeEClass.getESuperTypes().add(this.getIAttributeExtensible());
iOperationEClass.getESuperTypes().add(this.getIElementExtensible());
iInputEClass.getESuperTypes().add(this.getIAttributeExtensible());
iOutputEClass.getESuperTypes().add(this.getIAttributeExtensible());
iFaultEClass.getESuperTypes().add(this.getIAttributeExtensible());
iMessageEClass.getESuperTypes().add(this.getIElementExtensible());
iPartEClass.getESuperTypes().add(this.getIAttributeExtensible());
iServiceEClass.getESuperTypes().add(this.getIElementExtensible());
iPortEClass.getESuperTypes().add(this.getIElementExtensible());
iBindingEClass.getESuperTypes().add(this.getIElementExtensible());
iBindingOperationEClass.getESuperTypes().add(this.getIElementExtensible());
iBindingInputEClass.getESuperTypes().add(this.getIElementExtensible());
iBindingOutputEClass.getESuperTypes().add(this.getIElementExtensible());
iBindingFaultEClass.getESuperTypes().add(this.getIElementExtensible());
iDefinitionEClass.getESuperTypes().add(this.getIElementExtensible());
iImportEClass.getESuperTypes().add(this.getIAttributeExtensible());
typesEClass.getESuperTypes().add(this.getExtensibleElement());
typesEClass.getESuperTypes().add(this.getITypes());
unknownExtensibilityElementEClass.getESuperTypes().add(this.getExtensibilityElement());
xsdSchemaExtensibilityElementEClass.getESuperTypes().add(this.getExtensibilityElement());
xsdSchemaExtensibilityElementEClass.getESuperTypes().add(this.getISchema());
messageReferenceEClass.getESuperTypes().add(this.getExtensibleElement());
iSchemaEClass.getESuperTypes().add(this.getIExtensibilityElement());

// Initialize classes and features; add operations and parameters
initEClass(wsdIElementEClass, WSDL_Element.class, "WSDL_Element", IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

```

```

initEAttribute(
    getWSDLElement_DocumentationElement(),
    this.getDOMEElement(),
    "documentationElement", null, 0, 1, WSDLElement.class, !IS_TRANSIENT, !IS_VOLATILE,
IS_CHANGEABLE, !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEAttribute(
    getWSDLElement_Element(),
    this.getDOMEElement(),
    "element", null, 0, 1, WSDLElement.class, IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

addEOperation(wsdlElementEClass, this.getDefinition(), "getEnclosingDefinition", 0, 1); //$NON-NLS-1$

EOperation op = addEOperation(wsdlElementEClass, null, "setEnclosingDefinition"); //$NON-NLS-1$
addEParameter(op, this.getDefinition(), "definition", 0, 1); //$NON-NLS-1$

initEClass(portTypeEClass, PortType.class, "PortType", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEAttribute(
    getPortType_QName(),
    this.getQName(),
    "qName", null, 0, 1, PortType.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEAttribute(
    getPortType_Undefined(),
   .ecorePackage.getEBoolean(),
    "undefined", null, 0, 1, PortType.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEReference(
    getPortType_EOperations(),
    this.getOperation(),
    null,
    "eOperations", null, 0, -1, PortType.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$

initEClass(operationEClass, Operation.class, "Operation", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEAttribute(
    getOperation_Style(),
    this.getOperationType(),
    "style", null, 0, 1, Operation.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEAttribute(
    getOperation_Name(),
   .ecorePackage.getEString(),
    "name", null, 0, 1, Operation.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

```

```

initEAttribute(
    getOperation_Undefined(),
    ecorePackage.getEBoolean(),
    "undefined", null, 0, 1, Operation.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEReference(
    getOperation_EInput(),
    this.getInput(),
    null,
    "eInput", null, 0, 1, Operation.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE, IS_COMPOSITE,
!IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEReference(
    getOperation_EOutput(),
    this.getOutput(),
    null,
    "eOutput", null, 0, 1, Operation.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$
initEReference(
    getOperation_EFaults(),
    this.getFault(),
    null,
    "eFaults", null, 0, -1, Operation.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$
initEReference(
    getOperation_EParameterOrdering(),
    this.getPart(),
    null,
    "eParameterOrdering", null, 0, -1, Operation.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$

initEClass(messageEClass, Message.class, "Message", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEAttribute(
    getMessage_QName(),
    this.getQName(),
    "qName", null, 0, 1, Message.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEAttribute(
    getMessage_Undefined(),
    ecorePackage.getEBoolean(),
    "undefined", null, 0, 1, Message.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
initEReference(
    getMessage_EParts(),
    this.getPart(),

```

```

    null,
    "eParts", null, 0, -1, Message.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE, IS_COMPOSITE,
    !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

    initEClass(partEClass, Part.class, "Part", !IS_ABSTRACT, !IS_INTERFACE,
    IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getPart_Name(),
        ecorePackage.getEString(),
        "name", null, 0, 1, Part.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE, !IS_UNSETTABLE,
        !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getPart_ElementName(),
        this.getQName(),
        "elementName", null, 0, 1, Part.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getPart_TypeName(),
        this.getQName(),
        "typeName", null, 0, 1, Part.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEReference(
        getPart_TypeDefinition(),
        theXSDPackage.getXSDTypeDefinition(),
        null,
        "typeDefinition", null, 0, 1, Part.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
    //$NON-NLS-1$
    initEReference(
        getPart_ElementDeclaration(),
        theXSDPackage.getXSDElementDeclaration(),
        null,
        "elementDeclaration", null, 0, 1, Part.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
    //$NON-NLS-1$
    initEReference(
        getPart_EMessage(),
        this.getMessage(),
        null,
        "eMessage", null, 0, 1, Part.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE, !IS_COMPOSITE,
        IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

    initEClass(bindingEClass, Binding.class, "Binding", !IS_ABSTRACT, !IS_INTERFACE,
    IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getBinding_QName(),
        this.getQName(),
        "qName", null, 0, 1, Binding.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,

```

```

!!IS_UNSETTABLE, !!IS_ID, IS_UNIQUE, !!IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getBinding_Undefined(),
       .ecorePackage.getEBoolean(),
        "undefined", null, 0, 1, Binding.class, !!IS_TRANSIENT, !!IS_VOLATILE, IS_CHANGEABLE,
!!IS_UNSETTABLE, !!IS_ID, IS_UNIQUE, !!IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEReference(
        getBinding_EPortType(),
        this.getPortType(),
        null,
        "ePortType", null, 1, 1, Binding.class, !!IS_TRANSIENT, !!IS_VOLATILE, IS_CHANGEABLE,
!!IS_COMPOSITE, IS_RESOLVE_PROXIES, !!IS_UNSETTABLE, IS_UNIQUE, !!IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$
    initEReference(
        getBinding_EBindingOperations(),
        this.getBindingOperation(),
        null,
        "eBindingOperations", null, 0, -1, Binding.class, !!IS_TRANSIENT, !!IS_VOLATILE, IS_CHANGEABLE,
IS_COMPOSITE, !!IS_RESOLVE_PROXIES, !!IS_UNSETTABLE, IS_UNIQUE, !!IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$

    initEClass(bindingOperationEClass, BindingOperation.class, "BindingOperation", !!IS_ABSTRACT,
!!IS_INTERFACE, IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getBindingOperation_Name(),
       .ecorePackage.getEString(),
        "name", null, 0, 1, BindingOperation.class, !!IS_TRANSIENT, !!IS_VOLATILE, IS_CHANGEABLE,
!!IS_UNSETTABLE, !!IS_ID, IS_UNIQUE, !!IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEReference(
        getBindingOperation_EOperation(),
        this.getOperation(),
        null,
        "eOperation", null, 1, 1, BindingOperation.class, !!IS_TRANSIENT, !!IS_VOLATILE, IS_CHANGEABLE,
!!IS_COMPOSITE, IS_RESOLVE_PROXIES, !!IS_UNSETTABLE, IS_UNIQUE, !!IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$
    initEReference(
        getBindingOperation_EBindingInput(),
        this.getBindingInput(),
        null,
        "eBindingInput", null, 0, 1, BindingOperation.class, !!IS_TRANSIENT, !!IS_VOLATILE, IS_CHANGEABLE,
IS_COMPOSITE, !!IS_RESOLVE_PROXIES, !!IS_UNSETTABLE, IS_UNIQUE, !!IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$
    initEReference(
        getBindingOperation_EBindingOutput(),
        this.getBindingOutput(),
        null,
        "eBindingOutput", null, 0, 1, BindingOperation.class, !!IS_TRANSIENT, !!IS_VOLATILE, IS_CHANGEABLE,
IS_COMPOSITE, !!IS_RESOLVE_PROXIES, !!IS_UNSETTABLE, IS_UNIQUE, !!IS_DERIVED, IS_ORDERED);

```

```

//NON-NLS-1$
    initEReference(
        getBindingOperation_EBindingFaults(),
        this.getBindingFault(),
        null,
        "eBindingFaults", null, 0, -1, BindingOperation.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//NON-NLS-1$

    initEClass(serviceEClass, Service.class, "Service", !IS_ABSTRACT, !IS_INTERFACE,
        IS_GENERATED_INSTANCE_CLASS); //NON-NLS-1$
    initEAttribute(
        getService_QName(),
        this.getQName(),
        "qName", null, 0, 1, Service.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //NON-NLS-1$
    initEAttribute(
        getService_Undefined(),
        ecorePackage.getEBoolean(),
        "undefined", null, 0, 1, Service.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //NON-NLS-1$
    initEReference(
        getService_EPorts(),
        this.getPort(),
        null,
        "ePorts", null, 0, -1, Service.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE, IS_COMPOSITE,
        !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //NON-NLS-1$

    initEClass(portEClass, Port.class, "Port", !IS_ABSTRACT, !IS_INTERFACE,
        IS_GENERATED_INSTANCE_CLASS); //NON-NLS-1$
    initEAttribute(
        getPort_Name(),
        ecorePackage.getEString(),
        "name", null, 0, 1, Port.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE, !IS_UNSETTABLE,
        !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //NON-NLS-1$
    initEReference(
        getPort_EBinding(),
        this.getBinding(),
        null,
        "eBinding", null, 1, 1, Port.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE, !IS_COMPOSITE,
        IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //NON-NLS-1$

    initEClass(
        extensibilityElementEClass,
        ExtensibilityElement.class,
        "ExtensibilityElement", !IS_ABSTRACT, !IS_INTERFACE, IS_GENERATED_INSTANCE_CLASS);
//NON-NLS-1$
    initEAttribute(

```



```

    getExtensibilityElement_Required(),
    ecorePackage.getEBoolean(),
    "required", null, 0, 1, ExtensibilityElement.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getExtensibilityElement_ElementType(),
        this.getQName(),
        "elementType", null, 0, 1, ExtensibilityElement.class, IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

    initEClass(definitionEClass, Definition.class, "Definition", !IS_ABSTRACT, !IS_INTERFACE,
    IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getDefinition_TargetNamespace(),
        ecorePackage.getEString(),
        "targetNamespace", null, 0, 1, Definition.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getDefinition_Location(),
        ecorePackage.getEString(),
        "location", null, 0, 1, Definition.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getDefinition_QName(),
        this.getQName(),
        "qName", null, 0, 1, Definition.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getDefinition_Encoding(),
        ecorePackage.getEString(),
        "encoding", null, 0, 1, Definition.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEReference(
        getDefinition_EImports(),
        this.getImport(),
        null,
        "eImports", null, 0, -1, Definition.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
    //$NON-NLS-1$
    initEReference(
        getDefinition_ETypes(),
        this.getTypes(),
        null,
        "eTypes", null, 0, 1, Definition.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
    //$NON-NLS-1$
    initEReference(
        getDefinition_EMessages(),

```

```

    this.getMessage(),
    null,
    "eMessages", null, 0, -1, Definition.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$
    initEReference(
        getDefinition_EPortTypes(),
        this.getPortType(),
        null,
        "ePortTypes", null, 0, -1, Definition.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$
    initEReference(
        getDefinition_EBindings(),
        this.getBinding(),
        null,
        "eBindings", null, 0, -1, Definition.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$
    initEReference(
        getDefinition_EServices(),
        this.getService(),
        null,
        "eServices", null, 0, -1, Definition.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$
    initEReference(
        getDefinition_ENamespaces(),
        this.getNamespace(),
        null,
        "eNamespaces", null, 0, -1, Definition.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$

    addEOperation(definitionEClass, this.getDOMDocument(), "getDocument", 0, 1); //$NON-NLS-1$

    op = addEOperation(definitionEClass, null, "setDocument"); //$NON-NLS-1$
    addEParameter(op, this.getDOMDocument(), "document", 0, 1); //$NON-NLS-1$

    initEClass(importEClass, Import.class, "Import", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getImport_NamespaceURI(),
        ecorePackage.getEString(),
        "namespaceURI", null, 0, 1, Import.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getImport_LocationURI(),

```

```

    ecorePackage.getEString(),
    "locationURI", null, 0, 1, Import.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEReference(
        getImport_EDefinition(),
        this.getDefinition(),
        null,
        "eDefinition", null, 0, 1, Import.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
    //$NON-NLS-1$
    initEReference(
        getImport_ESchema(),
        theXSDPackage.getXSDSchema(),
        null,
        "eSchema", null, 0, 1, Import.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
        !IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
    //$NON-NLS-1$

    addEOperation(importEClass, theXSDPackage.getXSDSchema(), "getSchema", 0, 1); //$NON-NLS-1$

    op = addEOperation(importEClass, null, "setSchema"); //$NON-NLS-1$
    addEParameter(op, theXSDPackage.getXSDSchema(), "schema", 0, 1); //$NON-NLS-1$

    initEClass(
        extensibleElementEClass,
        ExtensibleElement.class,
        "ExtensibleElement", IS_ABSTRACT, !IS_INTERFACE, IS_GENERATED_INSTANCE_CLASS); //$NON-
    NLS-1$
    initEReference(
        getExtensibleElement_EExtensibilityElements(),
        this.getExtensibilityElement(),
        null,
        "eExtensibilityElements", null, 0, -1, ExtensibleElement.class, !IS_TRANSIENT, !IS_VOLATILE,
        IS_CHANGEABLE, IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE,
        !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

    initEClass(inputEClass, Input.class, "Input", !IS_ABSTRACT, !IS_INTERFACE,
    IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

    initEClass(outputEClass, Output.class, "Output", !IS_ABSTRACT, !IS_INTERFACE,
    IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

    initEClass(faultEClass, Fault.class, "Fault", !IS_ABSTRACT, !IS_INTERFACE,
    IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

    initEClass(bindingInputEClass, BindingInput.class, "BindingInput", !IS_ABSTRACT, !IS_INTERFACE,
    IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(

```

```

    getBindingInput_Name(),
    ecorePackage.getEString(),
    "name", null, 0, 1, BindingInput.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEReference(
        getBindingInput_EInput(),
        this.getInput(),
        null,
        "eInput", null, 1, 1, BindingInput.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$

    addEOperation(bindingInputEClass, this.getInput(), "getInput", 0, 1); //$NON-NLS-1$

    op = addEOperation(bindingInputEClass, null, "setInput"); //$NON-NLS-1$
    addEParameter(op, this.getInput(), "input", 0, 1); //$NON-NLS-1$

    initEClass(bindingOutputEClass, BindingOutput.class, "BindingOutput", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getBindingOutput_Name(),
        ecorePackage.getEString(),
        "name", null, 0, 1, BindingOutput.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEReference(
        getBindingOutput_EOutput(),
        this.getOutput(),
        null,
        "eOutput", null, 1, 1, BindingOutput.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$

    addEOperation(bindingOutputEClass, this.getOutput(), "getOutput", 0, 1); //$NON-NLS-1$

    op = addEOperation(bindingOutputEClass, null, "setOutput"); //$NON-NLS-1$
    addEParameter(op, this.getOutput(), "output", 0, 1); //$NON-NLS-1$

    initEClass(bindingFaultEClass, BindingFault.class, "BindingFault", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getBindingFault_Name(),
        ecorePackage.getEString(),
        "name", null, 0, 1, BindingFault.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEReference(
        getBindingFault_EFault(),
        this.getFault(),
        null,

```

```

    "eFault", null, 1, 1, BindingFault.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
    //$NON-NLS-1$

    addEOperation(bindingFaultEClass, this.getIFault(), "getFault", 0, 1); //$NON-NLS-1$

    op = addEOperation(bindingFaultEClass, null, "setFault"); //$NON-NLS-1$
    addEParameter(op, this.getIFault(), "fault", 0, 1); //$NON-NLS-1$

    initEClass(namespaceEClass, Namespace.class, "Namespace", !IS_ABSTRACT, !IS_INTERFACE,
    IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getNamespace_URI(),
       .ecorePackage.getEString(),
        "URI", null, 0, 1, Namespace.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEAttribute(
        getNamespace_Prefix(),
       .ecorePackage.getEString(),
        "prefix", null, 0, 1, Namespace.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
    !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

    initEClass(iPortTypeEClass, javax.wsdl.PortType.class, "IPortType", IS_ABSTRACT, IS_INTERFACE,
    !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

    op = addEOperation(iPortTypeEClass, null, "addOperation"); //$NON-NLS-1$
    addEParameter(op, this.getIOperation(), "operation", 0, 1); //$NON-NLS-1$

    op = addEOperation(iPortTypeEClass, this.getIOperation(), "getOperation", 0, 1); //$NON-NLS-1$
    addEParameter(op,.ecorePackage.getEString(), "name", 0, 1); //$NON-NLS-1$
    addEParameter(op,.ecorePackage.getEString(), "inputName", 0, 1); //$NON-NLS-1$
    addEParameter(op,.ecorePackage.getEString(), "outputName", 0, 1); //$NON-NLS-1$

    addEOperation(iPortTypeEClass, this.getIList(), "getOperations", 0, 1); //$NON-NLS-1$

    initEClass(iOperationEClass, javax.wsdl.Operation.class, "IOperation", IS_ABSTRACT, IS_INTERFACE,
    !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

    op = addEOperation(iOperationEClass, null, "addFault"); //$NON-NLS-1$
    addEParameter(op, this.getIFault(), "fault", 0, 1); //$NON-NLS-1$

    op = addEOperation(iOperationEClass, this.getIFault(), "getFault", 0, 1); //$NON-NLS-1$
    addEParameter(op,.ecorePackage.getEString(), "name", 0, 1); //$NON-NLS-1$

    addEOperation(iOperationEClass, this.getIMap(), "getFaults", 0, 1); //$NON-NLS-1$

    addEOperation(iOperationEClass, this.getIList(), "getParameterOrdering", 0, 1); //$NON-NLS-1$

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```

op = addEOperation(iOperationEClass, null, "setParameterOrdering"); //$NON-NLS-1$
addEParameter(op, this.getIList(), "parameterOrder", 0, 1); //$NON-NLS-1$

addEOperation(iOperationEClass, this.getIInput(), "getInput", 0, 1); //$NON-NLS-1$

op = addEOperation(iOperationEClass, null, "setInput"); //$NON-NLS-1$
addEParameter(op, this.getIInput(), "input", 0, 1); //$NON-NLS-1$

addEOperation(iOperationEClass, this.getIOutput(), "getOutput", 0, 1); //$NON-NLS-1$

op = addEOperation(iOperationEClass, null, "setOutput"); //$NON-NLS-1$
addEParameter(op, this.getIOutput(), "output", 0, 1); //$NON-NLS-1$

initEClass(iInputEClass, javax.wsdl.Input.class, "IInput", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

addEOperation(iInputEClass, this.getMessage(), "getMessage", 0, 1); //$NON-NLS-1$

op = addEOperation(iInputEClass, null, "setMessage"); //$NON-NLS-1$
addEParameter(op, this.getMessage(), "message", 0, 1); //$NON-NLS-1$

initEClass(iOutputEClass, javax.wsdl.Output.class, "IOutput", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

addEOperation(iOutputEClass, this.getMessage(), "getMessage", 0, 1); //$NON-NLS-1$

op = addEOperation(iOutputEClass, null, "setMessage"); //$NON-NLS-1$
addEParameter(op, this.getMessage(), "message", 0, 1); //$NON-NLS-1$

initEClass(iFaultEClass, javax.wsdl.Fault.class, "IFault", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

addEOperation(iFaultEClass, this.getMessage(), "getMessage", 0, 1); //$NON-NLS-1$

op = addEOperation(iFaultEClass, null, "setMessage"); //$NON-NLS-1$
addEParameter(op, this.getMessage(), "message", 0, 1); //$NON-NLS-1$

initEClass(iMessageEClass, javax.wsdl.Message.class, "IMessage", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

op = addEOperation(iMessageEClass, null, "addPart"); //$NON-NLS-1$
addEParameter(op, this.getIPart(), "part", 0, 1); //$NON-NLS-1$

op = addEOperation(iMessageEClass, this.getIPart(), "getPart", 0, 1); //$NON-NLS-1$
addEParameter(op, ecorePackage.getEString(), "name", 0, 1); //$NON-NLS-1$

addEOperation(iMessageEClass, this.getIMap(), "getParts", 0, 1); //$NON-NLS-1$

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```

op = addEOperation(iMessageEClass, this.getIList(), "getOrderedParts", 0, 1); //$NON-NLS-1$
addEParameter(op, this.getIList(), "partOrder", 0, 1); //$NON-NLS-1$

initEClass(iPartEClass, javax.wsdl.Part.class, "IPart", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

initEClass(iServiceEClass, javax.wsdl.Service.class, "IService", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

op = addEOperation(iServiceEClass, null, "addPort"); //$NON-NLS-1$
addEParameter(op, this.getIPort(), "port", 0, 1); //$NON-NLS-1$

addEOperation(iServiceEClass, this.getIMap(), "getPorts", 0, 1); //$NON-NLS-1$

op = addEOperation(iServiceEClass, this.getIPort(), "getPort", 0, 1); //$NON-NLS-1$
addEParameter(op, ecorePackage.getEString(), "name", 0, 1); //$NON-NLS-1$

initEClass(iPortEClass, javax.wsdl.Port.class, "IPort", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

addEOperation(iPortEClass, this.getIBinding(), "getBinding", 0, 1); //$NON-NLS-1$

op = addEOperation(iPortEClass, null, "setBinding"); //$NON-NLS-1$
addEParameter(op, this.getIBinding(), "binding", 0, 1); //$NON-NLS-1$

initEClass(iBindingEClass, javax.wsdl.Binding.class, "IBinding", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

op = addEOperation(iBindingEClass, null, "addBindingOperation"); //$NON-NLS-1$
addEParameter(op, this.getIBindingOperation(), "bindingOperation", 0, 1); //$NON-NLS-1$

op = addEOperation(iBindingEClass, this.getIBindingOperation(), "getBindingOperation", 0, 1); //$NON-NLS-1$
addEParameter(op, ecorePackage.getEString(), "name", 0, 1); //$NON-NLS-1$
addEParameter(op, ecorePackage.getEString(), "inputName", 0, 1); //$NON-NLS-1$
addEParameter(op, ecorePackage.getEString(), "outputName", 0, 1); //$NON-NLS-1$

addEOperation(iBindingEClass, this.getIList(), "getBindingOperations", 0, 1); //$NON-NLS-1$

addEOperation(iBindingEClass, this.getIPortType(), "getPortType", 0, 1); //$NON-NLS-1$

op = addEOperation(iBindingEClass, null, "setPortType"); //$NON-NLS-1$
addEParameter(op, this.getIPortType(), "portType", 0, 1); //$NON-NLS-1$

initEClass(
    iBindingOperationEClass,
    javax.wsdl.BindingOperation.class,
    "IBindingOperation", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-
NLS-1$

```

```

op = addEOperation(iBindingOperationEClass, null, "addBindingFault"); //$NON-NLS-1$
addEParameter(op, this.getIBindingFault(), "bindingFault", 0, 1); //$NON-NLS-1$

op = addEOperation(iBindingOperationEClass, this.getIBindingFault(), "getBindingFault", 0, 1); //$NON-NLS-1$
addEParameter(op, ecorePackage.getEString(), "name", 0, 1); //$NON-NLS-1$

addEOperation(iBindingOperationEClass, this.getIMap(), "getBindingFaults", 0, 1); //$NON-NLS-1$

addEOperation(iBindingOperationEClass, this.getIOperation(), "getOperation", 0, 1); //$NON-NLS-1$

op = addEOperation(iBindingOperationEClass, null, "setOperation"); //$NON-NLS-1$
addEParameter(op, this.getIOperation(), "operation", 0, 1); //$NON-NLS-1$

addEOperation(iBindingOperationEClass, this.getIBindingInput(), "getBindingInput", 0, 1); //$NON-NLS-1$

op = addEOperation(iBindingOperationEClass, null, "setBindingInput"); //$NON-NLS-1$
addEParameter(op, this.getIBindingInput(), "bindingInput", 0, 1); //$NON-NLS-1$

addEOperation(iBindingOperationEClass, this.getIBindingOutput(), "getBindingOutput", 0, 1); //$NON-NLS-1$

op = addEOperation(iBindingOperationEClass, null, "setBindingOutput"); //$NON-NLS-1$
addEParameter(op, this.getIBindingOutput(), "bindingOutput", 0, 1); //$NON-NLS-1$

initEClass(iBindingInputEClass, javax.wsdl.BindingInput.class, "IBindingInput", IS_ABSTRACT,
IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

initEClass(
    iBindingOutputEClass,
    javax.wsdl.BindingOutput.class,
    "IBindingOutput", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
NLS-1$

initEClass(iBindingFaultEClass, javax.wsdl.BindingFault.class, "IBindingFault", IS_ABSTRACT,
IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

initEClass(
    iExtensibilityElementEClass,
    javax.wsdl.extensions.ExtensibilityElement.class,
    "IExtensibilityElement", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS);
//$NON-NLS-1$

initEClass(iDefinitionEClass, javax.wsdl.Definition.class, "IDefinition", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, null, "addBinding"); //$NON-NLS-1$
addEParameter(op, this.getIBinding(), "binding", 0, 1); //$NON-NLS-1$

```



```

op = addEOperation(iDefinitionEClass, null, "addImport"); //$NON-NLS-1$
addEParameter(op, this.getIImport(), "importDef", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, null, "addMessage"); //$NON-NLS-1$
addEParameter(op, this.getMessage(), "message", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, null, "addNamespace"); //$NON-NLS-1$
addEParameter(op, ecorePackage.getEString(), "prefix", 0, 1); //$NON-NLS-1$
addEParameter(op, ecorePackage.getEString(), "namespaceURI", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, null, "addPortType"); //$NON-NLS-1$
addEParameter(op, this.getIPortType(), "portType", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, null, "addService"); //$NON-NLS-1$
addEParameter(op, this.getService(), "service", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIBindingFault(), "createBindingFault", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIBindingInput(), "createBindingInput", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIBindingOutput(), "createBindingOutput", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIBindingOperation(), "createBindingOperation", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIBinding(), "createBinding", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIFault(), "createFault", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIImport(), "createImport", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIInput(), "createInput", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getMessage(), "createMessage", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIOperation(), "createOperation", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIOutput(), "createOutput", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIPart(), "createPart", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIPort(), "createPort", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIPortType(), "createPortType", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIService(), "createService", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, this.getIBinding(), "getBinding", 0, 1); //$NON-NLS-1$
addEParameter(op, this.getQName(), "name", 0, 1); //$NON-NLS-1$

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```

addEOperation(iDefinitionEClass, this.getIMap(), "getBindings", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIMap(), "getImports", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, this.getList(), "getImports", 0, 1); //$NON-NLS-1$
addEParameter(op,.ecorePackage.getEString(), "namespaceURI", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, this.getMessage(), "getMessage", 0, 1); //$NON-NLS-1$
addEParameter(op, this.getQName(), "name", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIMap(), "getMessages", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass,.ecorePackage.getEString(), "getNamespace", 0, 1); //$NON-NLS-1$
addEParameter(op,.ecorePackage.getEString(), "prefix", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIMap(), "getNamespaces", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, this.getPortType(), "getPortType", 0, 1); //$NON-NLS-1$
addEParameter(op, this.getQName(), "name", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIMap(), "getPortTypes", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass,.ecorePackage.getEString(), "getPrefix", 0, 1); //$NON-NLS-1$
addEParameter(op,.ecorePackage.getEString(), "namespaceURI", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, this.getService(), "getService", 0, 1); //$NON-NLS-1$
addEParameter(op, this.getQName(), "name", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIMap(), "getServices", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getIExtensionRegistry(), "getExtensionRegistry", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, null, "setExtensionRegistry"); //$NON-NLS-1$
addEParameter(op, this.getIExtensionRegistry(), "extensionRegistry", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass,.ecorePackage.getEString(), "getDocumentBaseURI", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, null, "setDocumentBaseURI"); //$NON-NLS-1$
addEParameter(op,.ecorePackage.getEString(), "documentBase", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getITypes(), "createTypes", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, this.getService(), "removeService", 0, 1); //$NON-NLS-1$
addEParameter(op, this.getQName(), "name", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, this.getIBinding(), "removeBinding", 0, 1); //$NON-NLS-1$
addEParameter(op, this.getQName(), "name", 0, 1); //$NON-NLS-1$

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op = addEOperation(iDefinitionEClass, this.getPortType(), "removePortType", 0, 1); //$NON-NLS-1$
addEParameter(op, this.getQName(), "name", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, this.getMessage(), "removeMessage", 0, 1); //$NON-NLS-1$
addEParameter(op, this.getQName(), "name", 0, 1); //$NON-NLS-1$

addEOperation(iDefinitionEClass, this.getITypes(), "getTypes", 0, 1); //$NON-NLS-1$

op = addEOperation(iDefinitionEClass, null, "setTypes"); //$NON-NLS-1$
addEParameter(op, this.getITypes(), "types", 0, 1); //$NON-NLS-1$

initEClass(iImportEClass, javax.wsdl.Import.class, "IImport", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

initEClass(iListEClass, List.class, "IList", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

initEClass(iMapEClass, Map.class, "IMap", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

initEClass(iurlEClass, URL.class, "IURL", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

initEClass(
    iExtensionRegistryEClass,
    ExtensionRegistry.class,
    "IExtensionRegistry", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-
NLS-1$

initEClass(typesEClass, Types.class, "Types", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

addEOperation(typesEClass, this.getList(), "getSchemas", 0, 1); //$NON-NLS-1$

op = addEOperation(typesEClass, this.getList(), "getSchemas", 0, 1); //$NON-NLS-1$
addEParameter(op, ecorePackage.getEString(), "namespaceURI", 0, 1); //$NON-NLS-1$

initEClass(iIteratorEClass, Iterator.class, "IIterator", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

initEClass(iTypesEClass, javax.wsdl.Types.class, "ITypes", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

initEClass(
    unknownExtensibilityElementEClass,
    UnknownExtensibilityElement.class,
    "UnknownExtensibilityElement", !IS_ABSTRACT, !IS_INTERFACE,

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```

IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEReference(
        getUnknownExtensibilityElement_Children(),
        this.getUnknownExtensibilityElement(),
        null,
        "children", null, 0, -1, UnknownExtensibilityElement.class, !IS_TRANSIENT, !IS_VOLATILE,
IS_CHANGEABLE, IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE,
!IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

    initEClass(
        xsdSchemaExtensibilityElementEClass,
        XSDSchemaExtensibilityElement.class,
        "XSDSchemaExtensibilityElement", !IS_ABSTRACT, !IS_INTERFACE,
IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getXSDSchemaExtensibilityElement_DocumentBaseURI(),
       .ecorePackage.getEString(),
        "documentBaseURI", null, 0, 1, XSDSchemaExtensibilityElement.class, !IS_TRANSIENT, !IS_VOLATILE,
IS_CHANGEABLE, !IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEReference(
        getXSDSchemaExtensibilityElement_Schema(),
        theXSDPackage.getXSDSchema(),
        null,
        "schema", null, 0, 1, XSDSchemaExtensibilityElement.class, !IS_TRANSIENT, !IS_VOLATILE,
IS_CHANGEABLE, IS_COMPOSITE, !IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE,
!IS_DERIVED, IS_ORDERED); //$NON-NLS-1$

    initEClass(messageReferenceEClass, MessageReference.class, "MessageReference", IS_ABSTRACT,
!IS_INTERFACE, IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
    initEAttribute(
        getMessageReference_Name(),
       .ecorePackage.getEString(),
        "name", null, 0, 1, MessageReference.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_UNSETTABLE, !IS_ID, IS_UNIQUE, !IS_DERIVED, IS_ORDERED); //$NON-NLS-1$
    initEReference(
        getMessageReference_EMessage(),
        this.getMessage(),
        null,
        "eMessage", null, 1, 1, MessageReference.class, !IS_TRANSIENT, !IS_VOLATILE, IS_CHANGEABLE,
!IS_COMPOSITE, IS_RESOLVE_PROXIES, !IS_UNSETTABLE, IS_UNIQUE, !IS_DERIVED, IS_ORDERED);
//$NON-NLS-1$

    initEClass(
        iElementExtensibleEClass,
        ElementExtensible.class,
        "IElementExtensible", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

```

```

addEOperation(iElementExtensibleEClass, this.getList(), "getExtensibilityElements", 0, 1); //$NON-NLS-1$

op = addEOperation(iElementExtensibleEClass, null, "addExtensibilityElement"); //$NON-NLS-1$
addEParameter(op, this.getIExtensibilityElement(), "extElement", 0, 1); //$NON-NLS-1$

initEClass(
    iAttributeExtensibleEClass,
    AttributeExtensible.class,
    "IAttributeExtensible", IS_ABSTRACT, IS_INTERFACE, !IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

op = addEOperation(iAttributeExtensibleEClass, this.getObject(), "getExtensionAttribute", 0, 1); //$NON-NLS-1$
addEParameter(op, this.getQName(), "name", 0, 1); //$NON-NLS-1$

op = addEOperation(iAttributeExtensibleEClass, null, "setExtensionAttribute"); //$NON-NLS-1$
addEParameter(op, this.getQName(), "name", 0, 1); //$NON-NLS-1$
addEParameter(op, this.getObject(), "value", 0, 1); //$NON-NLS-1$

addEOperation(iAttributeExtensibleEClass, this.getMap(), "getExtensionAttributes", 0, 1); //$NON-NLS-1$

addEOperation(iAttributeExtensibleEClass, this.getList(), "getNativeAttributeNames", 0, 1); //$NON-NLS-1$

initEClass(iObjectEClass, Object.class, "IObject", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

initEClass(iSchemaEClass, Schema.class, "ISchema", IS_ABSTRACT, IS_INTERFACE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

// Initialize data types
initEDataType(qNameEDataType, QName.class, "QName", IS_SERIALIZABLE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEDataType(operationTypeEDataType, OperationType.class, "OperationType", IS_SERIALIZABLE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEDataType(domElementEDataType, Element.class, "DOMElement", IS_SERIALIZABLE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEDataType(wSDLExceptionEDataType, WSDLException.class, "WSDLException", IS_SERIALIZABLE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$
initEDataType(domDocumentEDataType, Document.class, "DOMDocument", IS_SERIALIZABLE,
!IS_GENERATED_INSTANCE_CLASS); //$NON-NLS-1$

// Create resource
createResource(eNS_URI);
}

} //WSDLPackageImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.

```

```

* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.common.notify.NotificationChain;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EPackage;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.emf.ecore.util.EObjectContainmentEList;
import org.eclipse.emf.ecore.util.InternalEList;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.Port;
import org.eclipse.wst.wsdl.Service;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.internal.util.WSDLUtil;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Service</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{@link org.eclipse.wst.wsdl.internal.impl.ServiceImpl#getQName <em>QName</em>}</li>
 * <li>{@link org.eclipse.wst.wsdl.internal.impl.ServiceImpl#isUndefined <em>Undefined</em>}</li>

```

```

* <li>{ @link org.eclipse.wst.wsdl.internal.impl.ServiceImpl#getEPorts <em>EPorts</em>}</li>
* </ul>
* </p>
*
* @generated
*/
public class ServiceImpl extends ExtensibleElementImpl implements Service
{
/**
* This class is not intended to be serialized.
* serialVersionUID is assigned with 1L to avoid
* compiler warning messages.
*/
private static final long serialVersionUID = 1L;

/**
* The default value of the '{ @link #getQName() <em>QName</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getQName()
* @generated
* @ordered
*/
protected static final QName QNAME_EDEFAULT = null;

/**
* The cached value of the '{ @link #getQName() <em>QName</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getQName()
* @generated
* @ordered
*/
protected QName qName = QNAME_EDEFAULT;

/**
* The default value of the '{ @link #isUndefined() <em>Undefined</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #isUndefined()
* @generated
* @ordered
*/
protected static final boolean UNDEFINED_EDEFAULT = false;

/**
* The cached value of the '{ @link #isUndefined() <em>Undefined</em>}' attribute.
* <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @see #isUndefined()
* @generated
* @ordered
*/
protected boolean undefined = UNDEFINED_EDEFAULT;

/**
* The cached value of the '{@link #getEPorts() <em>EPorts</em>}' containment reference list.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getEPorts()
* @generated
* @ordered
*/
protected EList ePorts;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected ServiceImpl()
{
    super();
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.SERVICE;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public QName getQName()
{
    return qName;
}

/**

```



```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setQName(QName newQName)
{
    QName oldQName = qName;
    qName = newQName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.SERVICE__QNAME, oldQName,
qName));
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public boolean isUndefined()
{
    return undefined;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setUndefined(boolean newUndefined)
{
    boolean oldUndefined = undefined;
    undefined = newUndefined;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.SERVICE__UNDEFINED,
oldUndefined, undefined));
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public EList getEPorts()
{
    if (ePorts == null)
    {
        ePorts = new EObjectContainmentEList(Port.class, this, WSDLPackage.SERVICE__EPORTS);
    }
}

```

```

    return ePorts;
}

/**
 * <!-- begin-user-doc -->
 * Add a port to this service.
 * @param port the port to be added
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addPort(javax.wsdl.Port port)
{
    getEPorts().add((Port)port);
}

/**
 * <!-- begin-user-doc -->
 * Get all the ports defined here.
 * <!-- end-user-doc -->
 * @generated NOT
 */
public Map getPorts()
{
    HashMap hashMap = new HashMap();
    for (Iterator i = getEPorts().iterator(); i.hasNext();)
    {
        Port port = (Port)i.next();
        hashMap.put(port.getName(), port);
    }
    return hashMap;
}

/**
 * <!-- begin-user-doc -->
 * Get the specified port.
 *
 * @param name the name of the desired port.
 * @return the corresponding port, or null if there wasn't
 * any matching port
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Port getPort(String name)
{
    Port result = null;
    for (Iterator i = getEPorts().iterator(); i.hasNext();)
    {
        Port port = (Port)i.next();

```

```

    if (name.equals(port.getName()))
    {
        result = port;
        break;
    }
}
return result;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case WSDLPackage.SERVICE__EPORTS:
            return ((InternalEList)getEPorts()).basicRemove(otherEnd, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.SERVICE__QNAME:
            return getQName();
        case WSDLPackage.SERVICE__UNDEFINED:
            return isUndefined() ? Boolean.TRUE : Boolean.FALSE;
        case WSDLPackage.SERVICE__EPORTS:
            return getEPorts();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.SERVICE__QNAME:
            setQName((QName)newValue);
            return;
        case WSDLPackage.SERVICE__UNDEFINED:
            setUndefined(((Boolean)newValue).booleanValue());
            return;
        case WSDLPackage.SERVICE__EPORTS:
            getEPorts().clear();
            getEPorts().addAll((Collection)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

```

```
/**
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @generated
```

```
*/
```

```
public void eUnset(int featureID)
```

```

{
    switch (featureID)
    {
        case WSDLPackage.SERVICE__QNAME:
            setQName(QNAME_EDEFAULT);
            return;
        case WSDLPackage.SERVICE__UNDEFINED:
            setUndefined(UNDEFINED_EDEFAULT);
            return;
        case WSDLPackage.SERVICE__EPORTS:
            getEPorts().clear();
            return;
    }
    super.eUnset(featureID);
}

```

```
/**
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @generated
```

```
*/
```

```
public boolean eIsSet(int featureID)
```

```

{
    switch (featureID)

```

```

    {
        case WSDLPackage.SERVICE__QNAME:
            return QName_EDEFAULT == null ? QName != null : !QName_EDEFAULT.equals(QName);
        case WSDLPackage.SERVICE__UNDEFINED:
            return undefined != UNDEFINED_EDEFAULT;
        case WSDLPackage.SERVICE__EPORTS:
            return ePorts != null && !ePorts.isEmpty();
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (qName: "); //$NON-NLS-1$
    result.append(QName);
    result.append(", undefined: "); //$NON-NLS-1$
    result.append(undefined);
    result.append(')');
    return result.toString();
}

//
// Reconcile methods
//

public void reconcileAttributes(Element changedElement)
{
    Definition definition = getEnclosingDefinition();
    String name = changedElement.getAttribute(WSDLConstants.NAME_ATTRIBUTE);
    QName qname = new QName(definition.getTargetNamespace(), name == null ? "" : name); //$NON-NLS-1$
    setQName(qname);
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    switch (WSDLUtil.getInstance().getWSDLType(child))
    {
        case WSDLConstants.PORT:
            {

```

```

    Port port =
(Port)((WSDLPackage)EPackage.Registry.INSTANCE.getEPackage(WSDLPackage.eNS_URI)).getWSDLFactory(
).createPort();
    port.setEnclosingDefinition(getEnclosingDefinition());
    getEPorts().add(port);
    port.setElement(child);
    break;
}
case WSDLConstants.DOCUMENTATION:
{
    setDocumentationElement(child);
    break;
}
default:
{
    super.handleUnreconciledElement(child, remainingModelObjects);
    break;
}
}
}

```

```

protected void handleReconciliation(Collection remainingModelObjects)
{
    for (Iterator i = remainingModelObjects.iterator(); i.hasNext();)
    {
        remove(i.next());
    }
}

```

```

private void remove(Object modelObject)
{
    List list = getList(modelObject);
    if (list != null)
    {
        list.remove(modelObject);
    }
}

```

```

private List getList(Object modelObject)
{
    List result = null;
    if (modelObject instanceof Port)
    {
        result = getEPorts();
    }
    else if (modelObject instanceof ExtensibilityElement)
    {
        result = getExtensibilityElements();
    }
}

```

```

    }
    return result;
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == WSDLPackage.Literals.SERVICE__QNAME)
            niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getQName().getLocalPart());
    }
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.SERVICE);
    setElement(newElement);

    Iterator iterator = getExtensibilityElements().iterator();
    while (iterator.hasNext())
    {
        ExtensibilityElement extensibilityElement = (ExtensibilityElement)iterator.next();
        Element child = ((ExtensibilityElementImpl)extensibilityElement).createElement();
        newElement.appendChild(child);
    }

    iterator = getEPorts().iterator();
    while (iterator.hasNext())
    {
        Port port = (Port)iterator.next();
        Element child = ((PortImpl)port).createElement();
        newElement.appendChild(child);
    }

    return newElement;
}

} //ServiceImpl

```

```

/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

```

```

import java.util.Collection;
import java.util.Iterator;
import java.util.List;
import java.util.Map;

```

```

import javax.xml.namespace.QName;

```

```

import org.eclipse.emf.common.notify.NotificationChain;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.util.EObjectContainmentEList;
import org.eclipse.emf.ecore.util.InternalEList;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.ExtensibleElement;
import org.eclipse.wst.wsdl.WSDLFactory;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

```

```

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Extensible Element</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{@link org.eclipse.wst.wsdl.internal.impl.ExtensibleElementImpl#getEEExtensibilityElements
 * <em>EEExtensibility Elements</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */

```



```

public abstract class ExtensibleElementImpl extends WSDLElementImpl implements ExtensibleElement
{
/**
 * The cached value of the '{@link #getEExtensibilityElements() <em>EExtensibility Elements</em>}'
containment reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEExtensibilityElements()
 * @generated
 * @ordered
 */
protected EList eExtensibilityElements;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected ExtensibleElementImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.EXTENSIBLE_ELEMENT;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEExtensibilityElements()
{
    if (eExtensibilityElements == null)
    {
        eExtensibilityElements = new EObjectContainmentEList(
            ExtensibilityElement.class,
            this,
            WSDLPackage.EXTENSIBLE_ELEMENT__EEXTENSIBILITY_ELEMENTS);
    }
    return eExtensibilityElements;
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public List getExtensibilityElements()
{
    return getEExtensibilityElements();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addExtensibilityElement(javax.wsdl.extensions.ExtensibilityElement extElement)
{
    getExtensibilityElements().add(extElement);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case WSDLPackage.EXTENSIBLE_ELEMENT__EEXTENSIBILITY_ELEMENTS:
            return ((InternalEList)getEExtensibilityElements()).basicRemove(otherEnd, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.EXTENSIBLE_ELEMENT__EEXTENSIBILITY_ELEMENTS:
            return getEExtensibilityElements();
    }
}

```

```

    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.EXTENSIBLE_ELEMENT__EEXTENSIBILITY_ELEMENTS:
            getEExtensibilityElements().clear();
            getEExtensibilityElements().addAll((Collection)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.EXTENSIBLE_ELEMENT__EEXTENSIBILITY_ELEMENTS:
            getEExtensibilityElements().clear();
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.EXTENSIBLE_ELEMENT__EEXTENSIBILITY_ELEMENTS:
            return eExtensibilityElements != null && !eExtensibilityElements.isEmpty();
    }
}

```

```

    }
    return super.eIsSet(featureID);
}

//
//
//
public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    if (!WSDLConstants.isMatchingNamespace(child.getNamespaceURI(),
WSDLConstants.WSDL_NAMESPACE_URI))
    {
        ExtensibilityElement extensibilityElement = useExtensionFactories()
            ? ((WSDLFactoryImpl)WSDLFactory.eINSTANCE).createExtensibilityElement(getNamespace(child),
getLocalName(child))
            : ((WSDLFactoryImpl)WSDLFactory.eINSTANCE).createUnknownExtensibilityElement();

        extensibilityElement.setEnclosingDefinition(getEnclosingDefinition());
        extensibilityElement.setElement(child);
        getEEExtensibilityElements().add(extensibilityElement);
    }
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public Object getExtensionAttribute(QName name)
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setExtensionAttribute(QName name, Object value)
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated NOT
*/
public Map getExtensionAttributes()
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated NOT
*/
public List getNativeAttributeNames()
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

private boolean useExtensionFactories()
{
    // Use extension factories by default.
    return getEnclosingDefinition() == null ? true :
((DefinitionImpl)getEnclosingDefinition()).getUseExtensionFactories();
}

/**
* Override this method if the remainingModelObjects contain elements that are not only ExtensibilityElement
*/
protected void handleReconciliation(Collection remainingModelObjects)
{
    super.handleReconciliation(remainingModelObjects);
    Iterator iterator = remainingModelObjects.iterator();
    List extensibilityElements = getExtensibilityElements();
    while (iterator.hasNext())
    {
        Object modelObject = iterator.next();
        if (modelObject instanceof ExtensibilityElement)
        {
            extensibilityElements.remove(modelObject);
        }
    }
}

```

```

} //ExtensibleElementImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Vector;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.common.notify.NotificationChain;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EPackage;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.emf.ecore.util.EObjectContainmentEList;
import org.eclipse.emf.ecore.util.InternalEList;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.Message;
import org.eclipse.wst.wsdl.Part;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.internal.util.WSDLUtil;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Message</b></em>'.
 * <!-- end-user-doc -->
 * <p>

```

* The following features are implemented:

```
* <ul>  
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.MessageImpl#getQName <em>QName</em>}</li>  
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.MessageImpl#isUndefined <em>Undefined</em>}</li>  
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.MessageImpl#getEParts <em>EParts</em>}</li>  
* </ul>  
* </p>  
*
```

* @generated

*/

```
public class MessageImpl extends ExtensibleElementImpl implements Message
```

```
{
```

```
/**
```

```
* This class is not intended to be serialized.  
* serialVersionUID is assigned with 1L to avoid  
* compiler warning messages.
```

```
*/
```

```
private static final long serialVersionUID = 1L;
```

```
/**
```

```
* The default value of the '{ @link #getQName() <em>QName</em>}' attribute.
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @see #getQName()
```

```
* @generated
```

```
* @ordered
```

```
*/
```

```
protected static final QName QNAME_EDEFAULT = null;
```

```
/**
```

```
* The cached value of the '{ @link #getQName() <em>QName</em>}' attribute.
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @see #getQName()
```

```
* @generated
```

```
* @ordered
```

```
*/
```

```
protected QName qName = QNAME_EDEFAULT;
```

```
/**
```

```
* The default value of the '{ @link #isUndefined() <em>Undefined</em>}' attribute.
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @see #isUndefined()
```

```
* @generated
```

```
* @ordered
```

```
*/
```

```
protected static final boolean UNDEFINED_EDEFAULT = false;
```

```

/**
 * The cached value of the '{@link #isUndefined() <em>Undefined</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #isUndefined()
 * @generated
 * @ordered
 */
protected boolean undefined = UNDEFINED_EDEFAULT;

/**
 * The cached value of the '{@link #getEParts() <em>EParts</em>}' containment reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEParts()
 * @generated
 * @ordered
 */
protected EList eParts;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected MessageImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.MESSAGE;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public QName getQName()
{

```



```

    return qName;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setQName(QName newQName)
{
    QName oldQName = qName;
    qName = newQName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.MESSAGE__QNAME, oldQName,
qName));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean isUndefined()
{
    return undefined;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setUndefined(boolean newUndefined)
{
    boolean oldUndefined = undefined;
    undefined = newUndefined;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.MESSAGE__UNDEFINED,
oldUndefined, undefined));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEParts()
{

```

```

if (eParts == null)
{
    eParts = new EObjectContainmentEList(Part.class, this, WSDLPackage.MESSAGE__EPARTS);
}
return eParts;
}

/**
 * <!-- begin-user-doc -->
 * Add a part to this message.
 * @param part the part to be added
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addPart(javax.wsdl.Part part)
{
    getEParts().add((Part)part);
}

/**
 * <!-- begin-user-doc -->
 * Get the specified part.
 * @param name the name of the desired part.
 * @return the corresponding part, or null if there wasn't
 * any matching part
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Part getPart(String name)
{
    Part result = null;
    for (Iterator i = getEParts().iterator(); i.hasNext();)
    {
        Part part = (Part)i.next();
        if (name.equals(part.getName()))
        {
            result = part;
            break;
        }
    }
    return result;
}

/**
 * <!-- begin-user-doc -->
 * Get all the parts defined here.
 * <!-- end-user-doc -->
 * @generated NOT

```

```

*/
public Map getParts()
{
    HashMap hashMap = new HashMap();
    for (Iterator i = getEParts().iterator(); i.hasNext();)
    {
        Part part = (Part)i.next();
        hashMap.put(part.getName(), part);
    }
    return hashMap;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public List getOrderedParts(List partOrder)
{
    List orderedParts = new Vector();
    if (partOrder == null)
    {
        orderedParts.addAll(getEParts());
        return orderedParts;
    }

    Iterator partNameIterator = partOrder.iterator();
    while (partNameIterator.hasNext())
    {
        String partName = (String)partNameIterator.next();
        javax.wsdl.Part part = getPart(partName);
        if (part != null)
            orderedParts.add(part);
    }

    return orderedParts;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case WSDLPackage.MESSAGE__EPARTS:

```

```

        return ((InternalEList)getEParts()).basicRemove(otherEnd, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.MESSAGE__QNAME:
            return getQName();
        case WSDLPackage.MESSAGE__UNDEFINED:
            return isUndefined() ? Boolean.TRUE : Boolean.FALSE;
        case WSDLPackage.MESSAGE__EPARTS:
            return getEParts();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.MESSAGE__QNAME:
            setQName((QName)newValue);
            return;
        case WSDLPackage.MESSAGE__UNDEFINED:
            setUndefined(((Boolean)newValue).booleanValue());
            return;
        case WSDLPackage.MESSAGE__EPARTS:
            getEParts().clear();
            getEParts().addAll((Collection)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.MESSAGE__QNAME:
            setQName(QNAME_EDEFAULT);
            return;
        case WSDLPackage.MESSAGE__UNDEFINED:
            setUndefined(UNDEFINED_EDEFAULT);
            return;
        case WSDLPackage.MESSAGE__EPARTS:
            getEParts().clear();
            return;
    }
    super.eUnset(featureID);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.MESSAGE__QNAME:
            return QNAME_EDEFAULT == null ? qName != null : !QNAME_EDEFAULT.equals(qName);
        case WSDLPackage.MESSAGE__UNDEFINED:
            return undefined != UNDEFINED_EDEFAULT;
        case WSDLPackage.MESSAGE__EPARTS:
            return eParts != null && !eParts.isEmpty();
    }
    return super.eIsSet(featureID);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String toString()
{
    if (eIsProxy())

```

```

return super.toString();

StringBuffer result = new StringBuffer(super.toString());
result.append(" (qName: "); //$NON-NLS-1$
result.append(qName);
result.append(", undefined: "); //$NON-NLS-1$
result.append(undefined);
result.append(')');
return result.toString();
}

//
// Reconcile methods
//

public void reconcileAttributes(Element changedElement)
{
    Definition definition = getEnclosingDefinition();
    String name = changedElement.getAttribute(WSDLConstants.NAME_ATTRIBUTE);
    QName qname = new QName(definition.getTargetNamespace(), name == null ? "" : name); //$NON-NLS-1$
    setQName(qname);
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    switch (WSDLUtil.getInstance().getWSDLType(child))
    {
        {
            case WSDLConstants.PART:
                {
                    Part part =
((WSDLPackage)EPackage.Registry.INSTANCE.getEPackage(WSDLPackage.eNS_URI)).getWSDLFactory().createPart();
                    part.setEnclosingDefinition(getEnclosingDefinition());
                    part.setElement(child);
                    getEParts().add(part);
                    break;
                }
            default:
                {
                    super.handleUnreconciledElement(child, remainingModelObjects);
                    break;
                }
        }
    }
}

protected void handleReconciliation(Collection remainingModelObjects)
{
    for (Iterator i = remainingModelObjects.iterator(); i.hasNext();)

```

```

    {
        remove(this, i.next());
    }
}

protected void remove(Object component, Object modelObject)
{
    List list = getList(component, modelObject);
    if (list != null)
    {
        list.remove(modelObject);
    }
}

private List getList(Object component, Object modelObject)
{
    List result = null;
    Message message = (Message)component;
    if (modelObject instanceof Part)
    {
        result = message.getEParts();
    }
    else if (modelObject instanceof ExtensibilityElement)
    {
        result = getExtensibilityElements();
    }

    return result;
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == WSDLPackage.Literals.MESSAGE__QNAME)
            niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getQName().getLocalPart());
    }
}

```

```

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.MESSAGE);
    setElement(newElement);

    Iterator iterator = getEParts().iterator();
    while (iterator.hasNext())
    {
        Object obj = iterator.next();
        if (obj instanceof Part)
        {
            Part part = (Part)obj;
            Element child = ((PartImpl)part).createElement();
            newElement.appendChild(child);
        }
    }
    return newElement;
}
} //MessageImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EReference;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.Message;
import org.eclipse.wst.wsdl.Part;
import org.eclipse.wst.wsdl.WSDLPackage;

```



```

import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.eclipse.xsd.XSDElementDeclaration;
import org.eclipse.xsd.XSDTypeDefinition;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Part</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.PartImpl#getName <em>Name</em>}</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.PartImpl#getElementName <em>Element Name</em>}</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.PartImpl#getTypeName <em>Type Name</em>}</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.PartImpl#getTypeDefinition <em>Type Definition</em>}</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.PartImpl#getElementDeclaration <em>Element
Declaration</em>}</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.PartImpl#getEMessage <em>EMessage</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class PartImpl extends ExtensibleElementImpl implements Part
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The default value of the '{ @link #getName() <em>Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getName()
 * @generated
 * @ordered
 */
protected static final String NAME_EDEFAULT = null;

/**
 * The cached value of the '{ @link #getName() <em>Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @see #getName()
* @generated
* @ordered
*/
protected String name = NAME_EDEFAULT;

/**
 * The default value of the '{@link #getElementName() <em>Element Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getElementName()
 * @generated
 * @ordered
 */
protected static final QName ELEMENT_NAME_EDEFAULT = null;

/**
 * The cached value of the '{@link #getElementName() <em>Element Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getElementName()
 * @generated
 * @ordered
 */
protected QName elementName = ELEMENT_NAME_EDEFAULT;

/**
 * The default value of the '{@link #getTypeName() <em>Type Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getTypeName()
 * @generated
 * @ordered
 */
protected static final QName TYPE_NAME_EDEFAULT = null;

/**
 * The cached value of the '{@link #getTypeName() <em>Type Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getTypeName()
 * @generated
 * @ordered
 */
protected QName typeName = TYPE_NAME_EDEFAULT;

/**
 * The cached value of the '{@link #getTypeDefinition() <em>Type Definition</em>}' reference.

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getTypeDefinition()
* @generated
* @ordered
*/
protected XSDTypeDefinition typeDefinition;

/**
* The cached value of the '{@link #getElementDeclaration() <em>Element Declaration</em>}' reference.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getElementDeclaration()
* @generated
* @ordered
*/
protected XSDElementDeclaration elementDeclaration;

/**
* The cached value of the '{@link #getMessage() <em>EMessage</em>}' reference.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getMessage()
* @generated
* @ordered
*/
protected Message eMessage;

public static final String NS_URI_PART_EXTENSIONS = "http://schemas.xmlsoap.org/wsdl/part-extensions/";

public static final String ATTR_MESSAGE = "message";

private Map extensionAttributes = new ExtensionAttributeMap();

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected PartImpl()
{
    super();
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated

```

```

*/
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.PART;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getName()
{
    return name;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setName(String newName)
{
    String oldName = name;
    name = newName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.PART__NAME, oldName, name));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public QName getElementName()
{
    return elementName;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setElementName(QName newElementName)
{
    QName oldElementName = elementName;
    elementName = newElementName;
}

```

```

    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.PART__ELEMENT_NAME,
oldElementName, elementName));
    }

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public QName getTypeName()
{
    return typeName;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setName(QName newName)
{
    QName oldName = typeName;
    typeName = newName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.PART__TYPE_NAME, oldName,
typeName));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public XSDTypeDefinition getTypeDefinition()
{
    if (typeDefinition != null && typeDefinition.eIsProxy())
    {
        InternalEObject oldTypeDefinition = (InternalEObject)typeDefinition;
        typeDefinition = (XSDTypeDefinition)eResolveProxy(oldTypeDefinition);
        if (typeDefinition != oldTypeDefinition)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE, WSDLPackage.PART__TYPE_DEFINITION,
oldTypeDefinition, typeDefinition));
        }
    }
    return typeDefinition;
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public XSDTypeDefinition basicGetTypeDefinition()
{
    return typeDefinition;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setTypeDefinition(XSDTypeDefinition newTypeDefinition)
{
    XSDTypeDefinition oldTypeDefinition = typeDefinition;
    typeDefinition = newTypeDefinition;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.PART__TYPE_DEFINITION,
oldTypeDefinition, typeDefinition));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public XSDElementDeclaration getElementDeclaration()
{
    if (elementDeclaration != null && elementDeclaration.eIsProxy())
    {
        InternalEObject oldElementDeclaration = (InternalEObject)elementDeclaration;
        elementDeclaration = (XSDElementDeclaration)eResolveProxy(oldElementDeclaration);
        if (elementDeclaration != oldElementDeclaration)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(
                    this,
                    Notification.RESOLVE,
                    WSDLPackage.PART__ELEMENT_DECLARATION,
                    oldElementDeclaration,
                    elementDeclaration));
        }
    }
}

```

```

    return elementDeclaration;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public XSDElementDeclaration basicGetElementDeclaration()
{
    return elementDeclaration;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setElementDeclaration(XSDElementDeclaration newElementDeclaration)
{
    XSDElementDeclaration oldElementDeclaration = elementDeclaration;
    elementDeclaration = newElementDeclaration;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(
            this,
            Notification.SET,
            WSDLPackage.PART__ELEMENT_DECLARATION,
            oldElementDeclaration,
            elementDeclaration));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Message getEMessage()
{
    if (eMessage != null && eMessage.eIsProxy())
    {
        InternalEObject oldEMessage = (InternalEObject)eMessage;
        eMessage = (Message)eResolveProxy(oldEMessage);
        if (eMessage != oldEMessage)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE, WSDLPackage.PART__EMESSAGE,
                    oldEMessage, eMessage));
        }
    }
}

```

```

    }
    return eMessage;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Message basicGetEMessage()
{
    return eMessage;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEMessage(Message newEMessage)
{
    Message oldEMessage = eMessage;
    eMessage = newEMessage;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.PART__EMESSAGE, oldEMessage,
eMessage));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setExtensionAttribute(QName name, QName value)
{
    String localName = name.getLocalPart();
    if (localName == null)
        return;

    if (value == null)
        extensionAttributes.remove(name);
    else
        extensionAttributes.put(name, value);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```



```

* @generated NOT
*/
public Iterator getExtensionAttributeNames()
{
    Map map = new HashMap(extensionAttributes);

    // Adjust messageName attribute
    QName messageName = getMessage() != null ? getMessage().getQName() : null;
    if (messageName != null)
        map.put(new QName(NS_URI_PART_EXTENSIONS, ATTR_MESSAGE), messageName);
    else
        map.remove(new QName(NS_URI_PART_EXTENSIONS, ATTR_MESSAGE));

    return map.keySet().iterator();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public Object getExtensionAttribute(QName name)
{
    if (name.equals(new QName(NS_URI_PART_EXTENSIONS, ATTR_MESSAGE)))
        return getMessage() != null ? getMessage().getQName() : null;
    else
        return (QName)extensionAttributes.get(name);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.PART__NAME:
            return getName();
        case WSDLPackage.PART__ELEMENT_NAME:
            return getElementName();
        case WSDLPackage.PART__TYPE_NAME:
            return getTypeName();
        case WSDLPackage.PART__TYPE_DEFINITION:
            if (resolve)
                return getTypeDefinition();
            return basicGetTypeDefinition();
    }
}

```

```

    case WSDLPackage.PART__ELEMENT_DECLARATION:
    if (resolve)
        return getElementDeclaration();
    return basicGetElementDeclaration();
    case WSDLPackage.PART__EMESSAGE:
    if (resolve)
        return getEMessage();
    return basicGetEMessage();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.PART__NAME:
            setName((String)newValue);
            return;
        case WSDLPackage.PART__ELEMENT_NAME:
            setElementName((QName)newValue);
            return;
        case WSDLPackage.PART__TYPE_NAME:
            setTypeNames((QName)newValue);
            return;
        case WSDLPackage.PART__TYPE_DEFINITION:
            setTypeDefinition((XSDTypeDefinition)newValue);
            return;
        case WSDLPackage.PART__ELEMENT_DECLARATION:
            setElementDeclaration((XSDElementDeclaration)newValue);
            return;
        case WSDLPackage.PART__EMESSAGE:
            setEMessage((Message)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public void eUnset(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.PART__NAME:
            setName(NAME_EDEFAULT);
            return;
        case WSDLPackage.PART__ELEMENT_NAME:
            setElementName(ELEMENT_NAME_EDEFAULT);
            return;
        case WSDLPackage.PART__TYPE_NAME:
            setType_name(TYPE_NAME_EDEFAULT);
            return;
        case WSDLPackage.PART__TYPE_DEFINITION:
            setTypeDefinition((XSDTypeDefinition)null);
            return;
        case WSDLPackage.PART__ELEMENT_DECLARATION:
            setElementDeclaration((XSDElementDeclaration)null);
            return;
        case WSDLPackage.PART__EMESSAGE:
            setEMessage((Message)null);
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.PART__NAME:
            return NAME_EDEFAULT == null ? name != null : !NAME_EDEFAULT.equals(name);
        case WSDLPackage.PART__ELEMENT_NAME:
            return ELEMENT_NAME_EDEFAULT == null ? elementName != null :
!ELEMENT_NAME_EDEFAULT.equals(elementName);
        case WSDLPackage.PART__TYPE_NAME:
            return TYPE_NAME_EDEFAULT == null ? typeName != null :
!TYPE_NAME_EDEFAULT.equals(typeName);
        case WSDLPackage.PART__TYPE_DEFINITION:
            return typeDefinition != null;
        case WSDLPackage.PART__ELEMENT_DECLARATION:
            return elementDeclaration != null;
        case WSDLPackage.PART__EMESSAGE:

```

```

        return eMessage != null;
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setMessage(javax.wsdl.Message message)
{
    setEMessage((Message)message);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Message getMessage()
{
    return getEMessage();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (name: "); //$NON-NLS-1$
    result.append(name);
    result.append(", elementName: "); //$NON-NLS-1$
    result.append(elementName);
    result.append(", typeName: "); //$NON-NLS-1$
    result.append(typeName);
    result.append(')');
    return result.toString();
}

public Map getExtensionAttributes()
{

```

```

return extensionAttributes;
}

class ExtensionAttributeMap extends HashMap
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

ExtensionAttributeMap()
{
super();
}

public Object put(Object key, Object val)
{
QName name = (QName)key;
QName value = (QName)val;
String lName = name.getLocalPart();
String nSpace = name.getNamespaceURI();

if (NS_URI_PART_EXTENSIONS.equals(nSpace) && ATTR_MESSAGE.equals(lName))
{
javax.wsdl.Message messageProxy = new MessageImpl();
messageProxy.setQName(value);
setEMessage((Message)messageProxy);
}
return super.put(key, value);
}
}

//
// Reconcile methods
//
public void reconcileAttributes(Element changedElement)
{
Definition definition = getEnclosingDefinition();

String name = changedElement.getAttributeNS(null, WSDLConstants.NAME_ATTRIBUTE);
if (name != null)
{
setName(name);
}

String elementAttr = WSDLConstants.getAttribute(changedElement,

```

```

WSDLConstants.ELEMENT_ATTRIBUTE);
    setName(elementAttr != null ? createQName(definition, elementAttr, element, true) : null);

    String typeAttr = WSDLConstants.getAttribute(changedElement, WSDLConstants.TYPE_ATTRIBUTE);
    setType(typeAttr != null ? createQName(definition, typeAttr, element, true) : null);

    reconcileReferences(false);
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    //super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == WSDLPackage.Literals.PART__NAME)
            niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getName());

        if (eAttribute == null || eAttribute == WSDLPackage.Literals.PART__TYPE_NAME)
            if (getTypeName() != null)
                niceSetAttributeURIValue(theElement, WSDLConstants.TYPE_ATTRIBUTE,
                    getTypeName().getNamespaceURI() + "#"
                    + getTypeName().getLocalPart());

        if (eAttribute == null || eAttribute == WSDLPackage.Literals.PART__ELEMENT_NAME)
            if (getElementName() != null)
                niceSetAttributeURIValue(theElement, WSDLConstants.ELEMENT_ATTRIBUTE,
                    getElementName().getNamespaceURI() + "#"
                    + getElementName().getLocalPart());

    }
}

protected void changeReference(EReference eReference)
{
    if (isReconciling)
        return;

    super.changeReference(eReference);
    Element theElement = getElement();
    if (theElement != null)

```

```

{
  if (eReference == null || eReference == WSDLPackage.Literals.PART__TYPE_DEFINITION)
  {
    XSDTypeDefinition typeDefinition = getTypeDefinition();
    if (typeDefinition != null)
    {
      niceSetAttributeURIValue(theElement, WSDLConstants.TYPE_ATTRIBUTE, typeDefinition.getURI());
    }
  }
  if (eReference == null || eReference == WSDLPackage.Literals.PART__ELEMENT_DECLARATION)
  {
    XSDElementDeclaration elementDecl = getElementDeclaration();
    if (elementDecl != null)
    {
      niceSetAttributeURIValue(theElement, WSDLConstants.ELEMENT_ATTRIBUTE, elementDecl.getURI());
    }
  }
}

```

```

public Element createElement()
{
  Element newElement = createElement(WSDLConstants.PART);
  setElement(newElement);
  return newElement;
}

```

```

public void reconcileReferences(boolean deep)
{
  XSDElementDeclaration newElementDeclaration = resolveElementDeclaration(elementName);
  if (newElementDeclaration != elementDeclaration)
  {
    setElementDeclaration(newElementDeclaration);
  }

```

```

  XSDTypeDefinition newTypeDefinition = resolveTypeDefinition(typeName);
  if (newTypeDefinition != typeDefinition)
  {
    setTypeDefinition(newTypeDefinition);
  }

```

```

  super.reconcileReferences(deep);
}

```

```

private XSDElementDeclaration resolveElementDeclaration(QName qname)
{
  XSDElementDeclaration result = null;
  if (qname != null)

```

```

{
    DefinitionImpl definition = (DefinitionImpl)getEnclosingDefinition();
    if (definition != null)
    {
        result = definition.resolveElementDeclaration(qname.getNamespaceURI(), qname.getLocalPart());
    }
}
return result;
}

```

```
private XSDTypeDefinition resolveTypeDefinition(QName qname)
```

```

{
    XSDTypeDefinition result = null;
    if (qname != null)
    {
        DefinitionImpl definition = (DefinitionImpl)getEnclosingDefinition();
        if (definition != null)
        {
            result = definition.resolveTypeDefinition(qname.getNamespaceURI(), qname.getLocalPart());
        }
    }
    return result;
}

```

```
} //PartImpl
```

```
/*
*****

```

```

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* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html

```

```
*
```

```
* Contributors:
```

```
* IBM Corporation - initial API and implementation
```

```
*****/
```

```
package org.eclipse.wst.wsdl.internal.impl;
```

```
import java.util.ArrayList;
```

```
import java.util.Arrays;
```

```
import java.util.Collection;
```

```
import java.util.HashMap;
```

```
import java.util.Iterator;
```

```
import java.util.List;
```

```
import java.util.Map;
```

```
import javax.wsdl.OperationType;
```

```
import org.eclipse.emf.common.notify.Notification;
```



```

import org.eclipse.emf.common.notify.NotificationChain;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EReference;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.emf.ecore.util.EObjectContainmentEList;
import org.eclipse.emf.ecore.util.EObjectResolvingEList;
import org.eclipse.emf.ecore.util.InternalEList;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.Fault;
import org.eclipse.wst.wsdl.Input;
import org.eclipse.wst.wsdl.Operation;
import org.eclipse.wst.wsdl.Output;
import org.eclipse.wst.wsdl.Part;
import org.eclipse.wst.wsdl.WSDLFactory;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.internal.util.WSDLUtil;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;
import org.w3c.dom.Node;
import org.w3c.dom.NodeList;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Operation</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.OperationImpl#getStyle <em>Style</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.OperationImpl#getName <em>Name</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.OperationImpl#isUndefined <em>Undefined</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.OperationImpl#getEInput <em>EInput</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.OperationImpl#getEOutput <em>EOutput</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.OperationImpl#getEFaults <em>EFaults</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.OperationImpl#getEParameterOrdering <em>EParameter
Ordering</em> }</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class OperationImpl extends ExtensibleElementImpl implements Operation
{

```

```

/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The default value of the '{@link #getStyle() <em>Style</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getStyle()
 * @generated
 * @ordered
 */
protected static final OperationType STYLE_EDEFAULT = null;

/**
 * The cached value of the '{@link #getStyle() <em>Style</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getStyle()
 * @generated
 * @ordered
 */
protected OperationType style = STYLE_EDEFAULT;

/**
 * The default value of the '{@link #getName() <em>Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getName()
 * @generated
 * @ordered
 */
protected static final String NAME_EDEFAULT = null;

/**
 * The cached value of the '{@link #getName() <em>Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getName()
 * @generated
 * @ordered
 */
protected String name = NAME_EDEFAULT;

/**

```

```

* The default value of the '{@link #isUndefined() <em>Undefined</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #isUndefined()
* @generated
* @ordered
*/
protected static final boolean UNDEFINED_EDEFAULT = false;

/**
* The cached value of the '{@link #isUndefined() <em>Undefined</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #isUndefined()
* @generated
* @ordered
*/
protected boolean undefined = UNDEFINED_EDEFAULT;

/**
* The cached value of the '{@link #getEInput() <em>EInput</em>}' containment reference.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getEInput()
* @generated
* @ordered
*/
protected Input eInput;

/**
* The cached value of the '{@link #getEOutput() <em>EOutput</em>}' containment reference.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getEOutput()
* @generated
* @ordered
*/
protected Output eOutput;

/**
* The cached value of the '{@link #getEFaults() <em>EFaults</em>}' containment reference list.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getEFaults()
* @generated
* @ordered
*/
protected EList eFaults;

```

```

/**
 * The cached value of the '{@link #getEParameterOrdering() <em>EParameter Ordering</em>}' reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEParameterOrdering()
 * @generated
 * @ordered
 */
protected EList eParameterOrdering; // a list of parts (EMF)

private List parameterOrdering = null; // a list of part names (WSDL4J)

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected OperationImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.OPERATION;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public OperationType getStyle()
{
    if (style == null)
        style = deduceOperationType(getElement());

    // The value of style is updated when
    // 1) the WSDL is loaded for the first time,
    // 2) the setStyle() method is called, and
    // 3) the children of the Operation (DOM) element are manipulated.
    return style;
}

```

```

}

private OperationType deduceOperationType(Element operation)
{
    if (operation == null)
        return null;

    int state = 0;
    int messageRefType = -1;
    Node child = null;
    NodeList children = operation.getChildNodes();

    for (int i = 0; i < children.getLength(); i++)
    {
        child = children.item(i);
        if (child.getNodeType() != Node.ELEMENT_NODE)
            continue;

        String nsURI = child.getNamespaceURI();

        if (!WSDLConstants.WSDL_NAMESPACE_URI.equals(nsURI))
        {
            // Skip over any non-WSDL elements. For example, to support new WSDL
            // use cases we have to tolerate extensibility elements at the operation level.

            continue;
        }

        messageRefType = WSDLUtil.getInstance().getWSDLType((Element)child);

        switch (state)
        {
            case 0: // initial state
                if (WSDLConstants.INPUT == messageRefType)
                    state = 1;
                else if (WSDLConstants.OUTPUT == messageRefType)
                    state = 2;
                else if (WSDLConstants.DOCUMENTATION == messageRefType)
                    state = 0;
                else
                    state = -1; // cannot happen
                break;
            case 1: // one-way or request-response
                if (WSDLConstants.FAULT == messageRefType)
                    state = 11; // one-way
                else if (WSDLConstants.OUTPUT == messageRefType)
                    state = 3; // request-response
                else

```

```

    state = -1; // cannot happen
    break;
case 11: // one-way
if (WSDLConstants.FAULT == messageRefType)
    state = 11; // one-way
else
    state = -1; // cannot happen
    break;
case 2: // solicit-response or notification
if (WSDLConstants.INPUT == messageRefType)
    state = 4; // solicit-response
else if (WSDLConstants.FAULT == messageRefType)
    state = 21; // notification
else
    state = -1; // cannot happen
    break;
case 21: // notification
if (WSDLConstants.FAULT == messageRefType)
    state = 21; // notification
else
    state = -1; // cannot happen
    break;
case 3: // request-response
if (WSDLConstants.FAULT == messageRefType)
    state = 3;
else
    state = -1; // cannot happen
    break;
case 4: // solicit-response
if (WSDLConstants.FAULT == messageRefType)
    state = 4;
else
    state = -1; // cannot happen
    break;
default: // cannot happen (-1)
    break;
}
}

```

```

OperationType opType = null;
switch (state)
{
case 1:
case 11:
opType = OperationType.ONE_WAY;
break;
case 2:
case 21:

```

```

opType = OperationType.NOTIFICATION;
    break;
case 3:
opType = OperationType.REQUEST_RESPONSE;
    break;
case 4:
opType = OperationType.SOLICIT_RESPONSE;
    break;
default: // invalid
    break;
}
return opType;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setStyle(OperationType newStyle)
{
    OperationType oldStyle = style;
    style = newStyle;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.OPERATION__STYLE, oldStyle,
style));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getName()
{
    return name;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setName(String newName)
{
    String oldName = name;
    name = newName;
    if (eNotificationRequired())

```

```

    eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.OPERATION__NAME, oldName,
name));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean isUndefined()
{
    return undefined;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setUndefined(boolean newUndefined)
{
    boolean oldUndefined = undefined;
    undefined = newUndefined;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.OPERATION__UNDEFINED,
oldUndefined, undefined));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Input getEInput()
{
    return eInput;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain basicSetEInput(Input newEInput, NotificationChain msgs)
{
    Input oldEInput = eInput;
    eInput = newEInput;
    if (eNotificationRequired())

```



```

    {
        ENotificationImpl notification = new ENotificationImpl(this, Notification.SET,
WSDLPackage.OPERATION__EINPUT, oldEInput, newEInput);
        if (msgs == null)
            msgs = notification;
        else
            msgs.add(notification);
    }
    return msgs;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEInput(Input newEInput)
{
    if (newEInput != eInput)
    {
        NotificationChain msgs = null;
        if (eInput != null)
            msgs = ((InternalEObject)eInput).eInverseRemove(this, EOPPOSITE_FEATURE_BASE -
WSDLPackage.OPERATION__EINPUT, null, msgs);
        if (newEInput != null)
            msgs = ((InternalEObject)newEInput).eInverseAdd(this, EOPPOSITE_FEATURE_BASE -
WSDLPackage.OPERATION__EINPUT, null, msgs);
        msgs = basicSetEInput(newEInput, msgs);
        if (msgs != null)
            msgs.dispatch();
    }
    else if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.OPERATION__EINPUT, newEInput,
newEInput));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Output getEOutput()
{
    return eOutput;
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public NotificationChain basicSetEOutput(Output newEOutput, NotificationChain msgs)
{
    Output oldEOutput = eOutput;
    eOutput = newEOutput;
    if (eNotificationRequired())
    {
        ENotificationImpl notification = new ENotificationImpl(this, Notification.SET,
WSDLPackage.OPERATION__EOUTPUT, oldEOutput, newEOutput);
        if (msgs == null)
            msgs = notification;
        else
            msgs.add(notification);
    }
    return msgs;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setEOutput(Output newEOutput)
{
    if (newEOutput != eOutput)
    {
        NotificationChain msgs = null;
        if (eOutput != null)
            msgs = ((InternalEObject)eOutput).eInverseRemove(this, EOPPOSITE_FEATURE_BASE -
WSDLPackage.OPERATION__EOUTPUT, null, msgs);
        if (newEOutput != null)
            msgs = ((InternalEObject)newEOutput).eInverseAdd(this, EOPPOSITE_FEATURE_BASE -
WSDLPackage.OPERATION__EOUTPUT, null, msgs);
        msgs = basicSetEOutput(newEOutput, msgs);
        if (msgs != null)
            msgs.dispatch();
    }
    else if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.OPERATION__EOUTPUT,
newEOutput, newEOutput));
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated

```

```

*/
public EList getEFaults()
{
    if (eFaults == null)
    {
        eFaults = new EObjectContainmentEList(Fault.class, this, WSDLPackage.OPERATION__EFAULTS);
    }
    return eFaults;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEParameterOrdering()
{
    if (eParameterOrdering == null)
    {
        eParameterOrdering = new EObjectResolvingEList(Part.class, this,
WSDLPackage.OPERATION__EPARAMETER_ORDERING);
    }
    return eParameterOrdering;
}

/**
 * <!-- begin-user-doc -->
 * Add a fault message that must be associated with this
 * operation.
 * @param fault the new fault message
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addFault(javax.wsdl.Fault fault)
{
    getEFaults().add((Fault)fault);
}

/**
 * <!-- begin-user-doc -->
 * Get the specified fault message.
 * @param name the name of the desired fault message.
 * @return the corresponding fault message, or null if there wasn't
 * any matching message
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Fault getFault(String name)

```

```

{
    Fault result = null;
    for (Iterator i = getEFaults().iterator(); i.hasNext();)
    {
        Fault fault = (Fault)i.next();
        if (name.equals(fault.getName()))
        {
            result = fault;
            break;
        }
    }
    return result;
}

/**
 * <!-- begin-user-doc -->
 * Get all the fault messages associated with this operation.
 * @return names of fault messages
 * <!-- end-user-doc -->
 * @generated NOT
 */
public Map getFaults()
{
    HashMap hashMap = new HashMap();
    for (Iterator i = getEFaults().iterator(); i.hasNext();)
    {
        Fault fault = (Fault)i.next();
        hashMap.put(fault.getName(), fault);
    }
    return hashMap;
}

/**
 * <!-- begin-user-doc -->
 * Returns a collection of Part names. Note that
 * getParameterEOrdering() returns a collection of Parts.
 * <!-- end-user-doc -->
 * @generated NOT
 */
public List getParameterOrdering()
{
    parameterOrdering = new ArrayList();
    for (Iterator i = getEParameterOrdering().iterator(); i.hasNext();)
    {
        try
        {
            Part part = (Part)i.next();
            parameterOrdering.add(part.getName());
        }
    }
}

```

```

    }
    catch (Exception e)
    {
        // TBD - handle exception
    }
}
return parameterOrdering.isEmpty() ? null : parameterOrdering;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setParameterOrdering(List parameterOrder)
{
    parameterOrdering = parameterOrder;
    getEParameterOrdering().clear();
    if (parameterOrder != null)
    {
        for (Iterator i = parameterOrder.iterator(); i.hasNext();)
        {
            // KB: We should be resolving parts based on the part names in parameterOrder.
            Part part = WSDLFactory.eINSTANCE.createPart();
            part.setName((String)i.next());
            getEParameterOrdering().add(part);
        }
    }
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Input getInput()
{
    return getEInput();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setInput(javax.wsdl.Input input)
{
    setEInput((Input)input);
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Output getOutput()
{
    return getEOutput();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setOutput(javax.wsdl.Output output)
{
    setEOutput((Output)output);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case WSDLPackage.OPERATION__EINPUT:
            return basicSetEInput(null, msgs);
        case WSDLPackage.OPERATION__EOUTPUT:
            return basicSetEOutput(null, msgs);
        case WSDLPackage.OPERATION__EFAULTS:
            return ((InternalEList)getEFaults()).basicRemove(otherEnd, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{

```

```

switch (featureID)
{
    case WSDLPackage.OPERATION__STYLE:
        return getStyle();
    case WSDLPackage.OPERATION__NAME:
        return getName();
    case WSDLPackage.OPERATION__UNDEFINED:
        return isUndefined() ? Boolean.TRUE : Boolean.FALSE;
    case WSDLPackage.OPERATION__EINPUT:
        return getEInput();
    case WSDLPackage.OPERATION__EOUTPUT:
        return getEOutput();
    case WSDLPackage.OPERATION__EFAULTS:
        return getEFaults();
    case WSDLPackage.OPERATION__EPARAMETER_ORDERING:
        return getEParameterOrdering();
}
return super.eGet(featureID, resolve, coreType);
}

```

```
/**
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @generated
```

```
*/
```

```

public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.OPERATION__STYLE:
            setStyle((OperationType)newValue);
            return;
        case WSDLPackage.OPERATION__NAME:
            setName((String)newValue);
            return;
        case WSDLPackage.OPERATION__UNDEFINED:
            setUndefined(((Boolean)newValue).booleanValue());
            return;
        case WSDLPackage.OPERATION__EINPUT:
            setEInput((Input)newValue);
            return;
        case WSDLPackage.OPERATION__EOUTPUT:
            setEOutput((Output)newValue);
            return;
        case WSDLPackage.OPERATION__EFAULTS:
            getEFaults().clear();
            getEFaults().addAll((Collection)newValue);
            return;
    }
}

```

```

    case WSDLPackage.OPERATION__EPARAMETER_ORDERING:
        getEParameterOrdering().clear();
        getEParameterOrdering().addAll((Collection)new Value);
        return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.OPERATION__STYLE:
            setStyle(STYLE_EDEFAULT);
            return;
        case WSDLPackage.OPERATION__NAME:
            setName(NAME_EDEFAULT);
            return;
        case WSDLPackage.OPERATION__UNDEFINED:
            setUndefined(UNDEFINED_EDEFAULT);
            return;
        case WSDLPackage.OPERATION__EINPUT:
            setEInput((Input)null);
            return;
        case WSDLPackage.OPERATION__EOUTPUT:
            setEOutput((Output)null);
            return;
        case WSDLPackage.OPERATION__EFAULTS:
            getEFaults().clear();
            return;
        case WSDLPackage.OPERATION__EPARAMETER_ORDERING:
            getEParameterOrdering().clear();
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)

```



```

{
  switch (featureID)
  {
    case WSDLPackage.OPERATION__STYLE:
      return STYLE_EDEFAULT == null ? style != null : !STYLE_EDEFAULT.equals(style);
    case WSDLPackage.OPERATION__NAME:
      return NAME_EDEFAULT == null ? name != null : !NAME_EDEFAULT.equals(name);
    case WSDLPackage.OPERATION__UNDEFINED:
      return undefined != UNDEFINED_EDEFAULT;
    case WSDLPackage.OPERATION__EINPUT:
      return eInput != null;
    case WSDLPackage.OPERATION__EOUTPUT:
      return eOutput != null;
    case WSDLPackage.OPERATION__EFAULTS:
      return eFaults != null && !eFaults.isEmpty();
    case WSDLPackage.OPERATION__EPARAMETER_ORDERING:
      return eParameterOrdering != null && !eParameterOrdering.isEmpty();
  }
  return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
  if (eIsProxy())
    return super.toString();

  StringBuffer result = new StringBuffer(super.toString());
  result.append(" (style: "); //$NON-NLS-1$
  result.append(style);
  result.append(", name: "); //$NON-NLS-1$
  result.append(name);
  result.append(", undefined: "); //$NON-NLS-1$
  result.append(undefined);
  result.append(')');
  return result.toString();
}

//
// Reconcile methods
//

public void reconcileAttributes(Element changedElement)
{

```

```

if (changedElement.hasAttribute(WSDLConstants.NAME_ATTRIBUTE))
{
    String name = changedElement.getAttribute(WSDLConstants.NAME_ATTRIBUTE);
    if (name != null)
    {
        setName(name);
    }
}

if (changedElement.hasAttribute(WSDLConstants.PARAMETER_ORDER_ATTRIBUTE))
{
    String parameterOrder =
changedElement.getAttribute(WSDLConstants.PARAMETER_ORDER_ATTRIBUTE);
    if (parameterOrder != null)
    {
        String[] array = parameterOrder.split(" ");
        List l = Arrays.asList(array);
        setParameterOrdering(l);
    }
}

}

public void elementChanged(Element changedElement)
{
    style = deduceOperationType(changedElement);
    super.elementChanged(changedElement);
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    Definition definition = getEnclosingDefinition();

    switch (WSDLUtil.getInstance().getWSDLType(child))
    {
        {
            case WSDLConstants.INPUT:
            {
                Input input = WSDLFactory.eINSTANCE.createInput();
                input.setEnclosingDefinition(definition);
                input.setElement(child);
                setInput(input);
                break;
            }
            case WSDLConstants.OUTPUT:
            {
                Output output = WSDLFactory.eINSTANCE.createOutput();
                output.setEnclosingDefinition(definition);
                output.setElement(child);
            }
        }
    }
}

```

```

        setOutput(output);
        break;
    }
    case WSDLConstants.FAULT:
    {
        Fault fault = WSDLFactory.eINSTANCE.createFault();
        fault.setEnclosingDefinition(definition);
        fault.setElement(child);
        addFault(fault);
        break;
    }
    default:
    {
        super.handleUnreconciledElement(child, remainingModelObjects);
        break;
    }
}

protected void handleReconciliation(Collection remainingModelObjects)
{
    for (Iterator i = remainingModelObjects.iterator(); i.hasNext();)
    {
        remove(this, i.next());
    }
}

protected void remove(Object component, Object modelObject)
{
    Operation operation = (Operation)component;
    if (modelObject instanceof Input)
    {
        operation.setEInput(null);
    }
    else if (modelObject instanceof Output)
    {
        operation.setEOutput(null);
    }
    else if (modelObject instanceof Fault)
    {
        operation.getEFaults().remove(modelObject);
    }
    else if (modelObject instanceof ExtensibilityElement)
    {
        getExtensibilityElements().remove(modelObject);
    }
}

```

```

public Collection getModelObjects(Object component)
{
    Operation operation = (Operation)component;

    List list = new ArrayList();

    if (operation.getEInput() != null)
    {
        list.add(operation.getEInput());
    }

    if (operation.getEOutput() != null)
    {
        list.add(operation.getEOutput());
    }

    list.addAll(operation.getEFaults());

    return list;
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == WSDLPackage.Literals.OPERATION__NAME)
            niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getName());
        if (eAttribute == WSDLPackage.Literals.OPERATION__STYLE)
        {
            OperationType targetType = getStyle();
            OperationType currentType = deduceOperationType(theElement);
            if (targetType.equals(currentType))
                return;
            else if (((targetType.equals(OperationType.REQUEST_RESPONSE) ||
targetType.equals(OperationType.SOLICIT_RESPONSE))
&& (currentType.equals(OperationType.REQUEST_RESPONSE) ||
currentType.equals(OperationType.SOLICIT_RESPONSE))))
                reorderChildren();
            else

```

```

        style = deduceOperationType(theElement); // switch back. no support for the other types
    }
}

protected void changeReference(EReference eReference)
{
    if (isReconciling)
        return;

    super.changeReference(eReference);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eReference == null || eReference == WSDLPackage.Literals.OPERATION__EPARAMETER_ORDERING)
        {
            // Build up a string of concatenated part names (parameterOrder) from eParameterOrdering.

            Iterator parts = getEParameterOrdering().iterator();
            Part part = null;
            String partNames = "";
            while (parts.hasNext())
            {
                part = (Part)parts.next();
                partNames = partNames + part.getName() + " ";
            }

            if ((partNames = partNames.trim()).length() != 0)
                // Update the element's attribute
                niceSetAttribute(theElement, WSDLConstants.PARAMETER_ORDER_ATTRIBUTE, partNames);
        }
    }
    //
}

// Switch <input> and <output>
private void reorderChildren()
{
    // Find out the positions of <input> and <output>
    Node input = null;
    Node output = null;
    Node reference = null;
    for (Node current = getElement().getFirstChild(); current != null; current = current.getNextSibling())
    {
        if (current.getNodeType() == Node.ELEMENT_NODE)
        {
            if (WSDLConstants.INPUT == WSDLUtil.getInstance().getWSDLType((Element)current))
            {

```

```

    input = current;
    if (output != null)
    {
        // cs.. for safety use current.getNextSibling() instead of nodeList.item(i+1)
        reference = current.getNextSibling();
    }
}
else if (WSDLConstants.OUTPUT == WSDLUtil.getInstance().getWSDLType((Element)current))
{
    output = current;
    if (input != null)
    {
        // cs.. for safety use current.getNextSibling() instead of nodeList.item(i+1)
        reference = current.getNextSibling();
    }
}
} // end for

if (input != null && output != null)
{
    Element parent = getElement();
    if (getStyle().equals(OperationType.REQUEST_RESPONSE))
    {
        // current order: <output> <input>
        switchChildren(parent, output, input, reference);
    }
    else if (getStyle().equals(OperationType.SOLICIT_RESPONSE))
    {
        // current order: <input> <output>
        switchChildren(parent, input, output, reference);
    }
}
}

private void switchChildren(Node parent, Node child1, Node child2, Node nextOfChild2)
{
    // current node sequence: <child1> <child2> <nextOfChild2>
    niceRemoveChild(parent, child2);
    niceInsertBefore(parent, child2, child1);
    niceRemoveChild(parent, child1);
    niceInsertBefore(parent, child1, nextOfChild2);
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.OPERATION);
    setElement(newElement);
}

```

```

Input input = getEInput();
if (input != null)
{
    Element child = ((InputImpl)input).createElement();
    newElement.appendChild(child);
}

Output output = getEOutput();
if (output != null)
{
    Element child = ((OutputImpl)output).createElement();
    newElement.appendChild(child);
}

Iterator iterator = getEFaults().iterator();
while (iterator.hasNext())
{
    Fault fault = (Fault)iterator.next();
    Element child = ((FaultImpl)fault).createElement();
    newElement.appendChild(child);
}

return newElement;
}

} //OperationImpl
/*****
* Copyright (c) 2001, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

import java.beans.BeanInfo;
import java.beans.IntrospectionException;
import java.beans.Introspector;
import java.beans.PropertyDescriptor;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;

```

```

import java.util.Map;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsd.Definition;
import org.eclipse.wst.wsd.ExtensibilityElement;
import org.eclipse.wst.wsd.WSDLPackage;
import org.w3c.dom.Document;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Extensibility Element</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsd.internal.impl.ExtensibilityElementImpl#isRequired <em>Required</em>}</li>
 * <li>{ @link org.eclipse.wst.wsd.internal.impl.ExtensibilityElementImpl#getElementType <em>Element
 * Type</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class ExtensibilityElementImpl extends WSDLElementImpl implements ExtensibilityElement
{
/**
 * The default value of the '{ @link #isRequired() <em>Required</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #isRequired()
 * @generated
 * @ordered
 */
protected static final boolean REQUIRED_EDEFAULT = false;

/**
 * The cached value of the '{ @link #isRequired() <em>Required</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #isRequired()
 * @generated

```



```

* @ordered
*/
protected boolean required = REQUIRED_EDEFAULT;

/**
 * The default value of the '{@link #getElementType() <em>Element Type</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getElementType()
 * @generated
 * @ordered
 */
protected static final QName ELEMENT_TYPE_EDEFAULT = null;

/**
 * The cached value of the '{@link #getElementType() <em>Element Type</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getElementType()
 * @generated
 * @ordered
 */
protected QName elementType = ELEMENT_TYPE_EDEFAULT;

private HashMap beanPropertyDescriptorors;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected ExtensibilityElementImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.EXTENSIBILITY_ELEMENT;
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public boolean isRequired()
{
    return required;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setRequired(boolean newRequired)
{
    boolean oldRequired = required;
    required = newRequired;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET,
WSDLPackage.EXTENSIBILITY_ELEMENT__REQUIRED, oldRequired, required));
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated NOT
*/
public QName getElementType()
{
    if (elementType == null)
        elementType = new QName(eClass().getEPackage().getNsURI(), eClass().getName());

    return elementType;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setElementType(QName newElementType)
{
    QName oldElementType = elementType;
    elementType = newElementType;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET,
WSDLPackage.EXTENSIBILITY_ELEMENT__ELEMENT_TYPE, oldElementType, elementType));
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.EXTENSIBILITY_ELEMENT__REQUIRED:
            return isRequired() ? Boolean.TRUE : Boolean.FALSE;
        case WSDLPackage.EXTENSIBILITY_ELEMENT__ELEMENT_TYPE:
            return getElementType();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.EXTENSIBILITY_ELEMENT__REQUIRED:
            setRequired(((Boolean)newValue).booleanValue());
            return;
        case WSDLPackage.EXTENSIBILITY_ELEMENT__ELEMENT_TYPE:
            setElementType((QName)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.EXTENSIBILITY_ELEMENT__REQUIRED:
            setRequired(REQUIRED_EDEFAULT);
    }
}

```

```

return;
case WSDLPackage.EXTENSIBILITY_ELEMENT__ELEMENT_TYPE:
setElementType(ELEMENT_TYPE_EDEFAULT);
return;
}
super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
switch (featureID)
{
case WSDLPackage.EXTENSIBILITY_ELEMENT__REQUIRED:
return required != REQUIRED_EDEFAULT;
case WSDLPackage.EXTENSIBILITY_ELEMENT__ELEMENT_TYPE:
return ELEMENT_TYPE_EDEFAULT == null ? elementType != null :
!ELEMENT_TYPE_EDEFAULT.equals(elementType);
}
return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
if (eIsProxy())
return super.toString();

StringBuffer result = new StringBuffer(super.toString());
result.append(" (required: "); //$NON-NLS-1$
result.append(required);
result.append(", elementType: "); //$NON-NLS-1$
result.append(elementType);
result.append(')');
return result.toString();
}

/**
 * @see javax.wsdl.extensions.ExtensibilityElement#getRequired()
 */

```

```

public Boolean getRequired()
{
    return new Boolean(isRequired());
}

/**
 * @see javax.wsdl.extensions.ExtensibilityElement#setRequired(Boolean)
 */
public void setRequired(Boolean required)
{
    setRequired(required.booleanValue());
}

/**
 * Returns the property descriptors for a given class.
 */
public java.util.Map getPropertyDescriptors(java.lang.Class clazz)
{
    // Lookup properties cache
    Map properties = null;
    if (beanPropertyDescriptors == null)
        beanPropertyDescriptors = new HashMap();
    else
        properties = (Map)beanPropertyDescriptors.get(clazz);

    if (properties == null)
    {
        // Introspect the bean
        ArrayList binfos = new ArrayList();
        try
        {
            BeanInfo binfo = Introspector.getBeanInfo(clazz);
            if (binfo != null)
            {
                binfos.add(binfo);
                BeanInfo[] abinfo = binfo.getAdditionalBeanInfo();
                if (abinfo != null)
                {
                    for (int b = 0; b < abinfo.length; b++)
                        binfos.add(abinfo[b]);
                }
            }
        }
        catch (IntrospectionException e)
        {
            // TBD - handle exception
        }
    }
}

```

```

properties = new HashMap();
for (Iterator b = binfos.iterator(); b.hasNext();)
{
    BeanInfo binfo = (BeanInfo)b.next();
    PropertyDescriptor[] pdesc = binfo.getPropertyDescriptors();
    if (pdesc == null)
        continue;
    for (int p = 0; p < pdesc.length; p++)
        properties.put(pdesc[p].getName(), pdesc[p]);
    }
    beanPropertyDescriptors.put(clazz, properties);
}
return properties;
}

//
// Reconcile methods
//

public void setElement(Element element)
{
    if (element == null && !isReconciling)
    {
        //System.out.println("ExtensibilityElement.setElement(): Preserving old element");
    }
    else
    {
        {
            setElementGen(element);
        }
    }
}

public void reconcileAttributes(Element changedElement)
{
    {
        super.reconcileAttributes(changedElement);
    }
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    {
        super.handleUnreconciledElement(child, remainingModelObjects);
    }
}

protected void handleReconciliation(Collection remainingModelObjects)
{
    {
        super.handleReconciliation(remainingModelObjects);
    }
}

//
// For reconciliation: EMF -> DOM

```

```

//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
}

public Element createElement()
{
    Definition definition = getEnclosingDefinition();
    if (definition == null)
        return null;

    Document document = definition.getDocument();
    if (document == null)
        document = ((DefinitionImpl)definition).updateDocument();

    Element newElement = null;
    if (element != null) // This is an old element.
    {
        newElement = (Element)document.importNode(element, true);
        element = newElement;
    }
    else
    {
        String namespace = getElementType().getNamespaceURI();
        String qualifier = definition.getPrefix(namespace);
        newElement = document.createElementNS(namespace, (qualifier == null ? "" : qualifier + ":") +
getElementType().getLocalPart());
        element = newElement;
    }

    return newElement;
}
} //ExtensibilityElementImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/

```

```

package org.eclipse.wst.wsdl.internal.impl;

import java.util.ArrayList;
import java.util.Collection;
import java.util.Iterator;
import java.util.List;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.common.notify.NotificationChain;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EReference;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.emf.ecore.util.EObjectContainmentEList;
import org.eclipse.emf.ecore.util.InternalEList;
import org.eclipse.wst.wsdl.Binding;
import org.eclipse.wst.wsdl.BindingOperation;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.PortType;
import org.eclipse.wst.wsdl.WSDLFactory;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.internal.util.WSDLUtil;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Binding</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{@link org.eclipse.wst.wsdl.internal.impl.BindingImpl#getQName <em>QName</em>}</li>
 * <li>{@link org.eclipse.wst.wsdl.internal.impl.BindingImpl#isUndefined <em>Undefined</em>}</li>
 * <li>{@link org.eclipse.wst.wsdl.internal.impl.BindingImpl#getEPortType <em>EPort Type</em>}</li>
 * <li>{@link org.eclipse.wst.wsdl.internal.impl.BindingImpl#getEBindingOperations <em>EBinding
 * Operations</em>}</li>
 * </ul>
 * </p>
 *
 * @generated

```



```

*/
public class BindingImpl extends ExtensibleElementImpl implements Binding
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The default value of the '{@link #getQName() <em>QName</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getQName()
 * @generated
 * @ordered
 */
protected static final QName QNAME_EDEFAULT = null;

/**
 * The cached value of the '{@link #getQName() <em>QName</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getQName()
 * @generated
 * @ordered
 */
protected QName qName = QNAME_EDEFAULT;

/**
 * The default value of the '{@link #isUndefined() <em>Undefined</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #isUndefined()
 * @generated
 * @ordered
 */
protected static final boolean UNDEFINED_EDEFAULT = false;

/**
 * The cached value of the '{@link #isUndefined() <em>Undefined</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #isUndefined()
 * @generated
 * @ordered
 */

```

```

protected boolean undefined = UNDEFINED_EDEFAULT;

/**
 * The cached value of the '{@link #getEPortType() <em>EPort Type</em>}' reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEPortType()
 * @generated
 * @ordered
 */
protected PortType ePortType;

/**
 * The cached value of the '{@link #getEBindingOperations() <em>EBinding Operations</em>}' containment
reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEBindingOperations()
 * @generated
 * @ordered
 */
protected EList eBindingOperations;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected BindingImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.BINDING;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public QName getQName()
{
    return qName;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setQName(QName newQName)
{
    QName oldQName = qName;
    qName = newQName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.BINDING__QNAME, oldQName,
qName));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean isUndefined()
{
    return undefined;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setUndefined(boolean newUndefined)
{
    boolean oldUndefined = undefined;
    undefined = newUndefined;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.BINDING__UNDEFINED,
oldUndefined, undefined));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public PortType getEPortType()
{
    if (ePortType != null && ePortType.eIsProxy())
    {
        InternalEObject oldEPortType = (InternalEObject)ePortType;
        ePortType = (PortType)eResolveProxy(oldEPortType);
        if (ePortType != oldEPortType)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE, WSDLPackage.BINDING__EPORT_TYPE,
oldEPortType, ePortType));
        }
    }
    return ePortType;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public PortType basicGetEPortType()
{
    return ePortType;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEPortType(PortType newEPortType)
{
    PortType oldEPortType = ePortType;
    ePortType = newEPortType;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.BINDING__EPORT_TYPE,
oldEPortType, ePortType));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEBindingOperations()
{
    if (eBindingOperations == null)

```

```

    {
        eBindingOperations = new EObjectContainmentEList(BindingOperation.class, this,
WSDLPackage.BINDING__EBINDING_OPERATIONS);
    }
    return eBindingOperations;
}

/**
 * <!-- begin-user-doc -->
 * Add an operation binding to binding.
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addBindingOperation(javax.wsdl.BindingOperation bindingOperation)
{
    getBindingOperations().add(bindingOperation);
}

/**
 * <!-- begin-user-doc -->
 * Get the specified operation binding. Note that operation names can
 * be overloaded within a PortType. In case of overloading, the
 * names of the input and output messages can be used to further
 * refine the search.
 * @param name the name of the desired operation binding.
 * @param inputName the name of the input message; if this is null
 * it will be ignored.
 * @param outputName the name of the output message; if this is null
 * it will be ignored.
 * @return the corresponding operation binding, or null if there wasn't
 * any matching operation binding
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.BindingOperation getBindingOperation(String name, String inputName, String outputName)
{
    Iterator opBindingIterator = getBindingOperations().iterator();
    while (opBindingIterator.hasNext())
    {
        javax.wsdl.BindingOperation op = (javax.wsdl.BindingOperation)opBindingIterator.next();
        if (op == null)
            continue;

        String opName = op.getName();
        if (name != null && opName != null)
        {
            if (!name.equals(opName))
                op = null;
        }
    }
}

```

```

    }
    else if (name != null || opName != null)
    {
        op = null;
    }

    if (op != null && inputName != null)
    {
        javax.wsdl.BindingInput input = op.getBindingInput();
        if (input != null)
        {
            String opInputName = input.getName();
            if (opInputName == null || !opInputName.equals(inputName))
                op = null;
        }
        else
            op = null;
    }

    if (op != null && outputName != null)
    {
        javax.wsdl.BindingOutput output = op.getBindingOutput();
        if (output != null)
        {
            String opOutputName = output.getName();
            if (opOutputName == null || !opOutputName.equals(outputName))
                op = null;
        }
        else
            op = null;
    }

    if (op != null)
        return op;
    } // end while
return null; // binding operation not found
}

/**
 * <!-- begin-user-doc -->
 * Get all the operation bindings defined here.
 * <!-- end-user-doc -->
 * @generated NOT
 */
public List getBindingOperations()
{
    return getEBindingOperations();
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.PortType getPortType()
{
    return getEPortType();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setPortType(javax.wsdl.PortType portType)
{
    setEPortType((PortType)portType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING__EBINDING_OPERATIONS:
            return ((InternalEList)getEBindingOperations()).basicRemove(otherEnd, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING__QNAME:
            return getQName();
        case WSDLPackage.BINDING__UNDEFINED:

```

```

return isUndefined() ? Boolean.TRUE : Boolean.FALSE;
case WSDLPackage.BINDING__EPORT_TYPE:
if (resolve)
return getEPortType();
return basicGetEPortType();
case WSDLPackage.BINDING__EBINDING_OPERATIONS:
return getEBindingOperations();
}
return super.eGet(featureID, resolve, coreType);
}

```

```
/**
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @generated
```

```
*/
```

```
public void eSet(int featureID, Object newValue)
```

```
{
```

```
switch (featureID)
```

```
{
```

```
case WSDLPackage.BINDING__QNAME:
```

```
setQName((QName)newValue);
```

```
return;
```

```
case WSDLPackage.BINDING__UNDEFINED:
```

```
setUndefined(((Boolean)newValue).booleanValue());
```

```
return;
```

```
case WSDLPackage.BINDING__EPORT_TYPE:
```

```
setEPortType((PortType)newValue);
```

```
return;
```

```
case WSDLPackage.BINDING__EBINDING_OPERATIONS:
```

```
getEBindingOperations().clear();
```

```
getEBindingOperations().addAll((Collection)newValue);
```

```
return;
```

```
}
```

```
super.eSet(featureID, newValue);
```

```
}
```

```
/**
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @generated
```

```
*/
```

```
public void eUnset(int featureID)
```

```
{
```

```
switch (featureID)
```

```
{
```

```
case WSDLPackage.BINDING__QNAME:
```

```
setQName(QNAME_EDEFAULT);
```



```

return;
case WSDLPackage.BINDING__UNDEFINED:
setUndefined(UNDEFINED_EDEFAULT);
return;
case WSDLPackage.BINDING__EPORT_TYPE:
setEPortType((PortType)null);
return;
case WSDLPackage.BINDING__EBINDING_OPERATIONS:
getEBindingOperations().clear();
return;
}
super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
switch (featureID)
{
case WSDLPackage.BINDING__QNAME:
return QNAME_EDEFAULT == null ? qName != null : !QNAME_EDEFAULT.equals(qName);
case WSDLPackage.BINDING__UNDEFINED:
return undefined != UNDEFINED_EDEFAULT;
case WSDLPackage.BINDING__EPORT_TYPE:
return ePortType != null;
case WSDLPackage.BINDING__EBINDING_OPERATIONS:
return eBindingOperations != null && !eBindingOperations.isEmpty();
}
return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
if (eIsProxy())
return super.toString();

StringBuffer result = new StringBuffer(super.toString());
result.append(" (qName: "); //$NON-NLS-1$
result.append(qName);

```

```

result.append(", undefined: "); //$NON-NLS-1$
result.append(undefined);
result.append(')');
return result.toString();
}

//
// Reconcile methods
//

public void reconcileAttributes(Element changedElement)
{
    Definition definition = getEnclosingDefinition();
    String name = changedElement.getAttribute(WSDLConstants.NAME_ATTRIBUTE);
    QName qname = new QName(definition.getTargetNamespace(), name == null ? "" : name); //$NON-NLS-1$
    setQName(qname);
    reconcileReferences(false);
}

public Collection getModelObjects(Object component)
{
    Binding binding = (Binding)component;

    List list = new ArrayList();
    list.addAll(binding.getEBindingOperations());
    list.addAll(binding.getEExtensibilityElements());
    return list;
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    switch (WSDLUtil.getInstance().getWSDLType(child))
    {
        case WSDLConstants.OPERATION:
            BindingOperation operation = WSDLFactory.eINSTANCE.createBindingOperation();
            operation.setEnclosingDefinition(getEnclosingDefinition());
            operation.setElement(child);
            addBindingOperation(operation);
            break;
        default:
            super.handleUnreconciledElement(child, remainingModelObjects);
            break;
    }
}

protected void handleReconciliation(Collection remainingModelObjects)
{
    for (Iterator i = remainingModelObjects.iterator(); i.hasNext();)

```

```

    {
        remove(this, i.next());
    }
}

protected void remove(Object component, Object modelObject)
{
    List list = getList(component, modelObject);
    if (list != null)
    {
        list.remove(modelObject);
    }
}

private List getList(Object component, Object modelObject)
{
    List result = null;
    Binding binding = (Binding)component;
    if (modelObject instanceof BindingOperation)
    {
        result = binding.getEBindingOperations();
    }
    else if (modelObject instanceof ExtensibilityElement)
    {
        result = binding.getEExtensibilityElements();
    }
    return result;
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == WSDLPackage.Literals.BINDING__QNAME)
            niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getQName().getLocalPart());
    }
}

protected void changeReference(EReference eReference)

```

```

{
    if (isReconciling)
        return;

    super.changeReference(eReference);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eReference == null || eReference == WSDLPackage.Literals.BINDING__EPORT_TYPE)
        {
            PortType portType = getEPortType();
            if (portType != null)
            {
                QName qName = portType.getQName();
                niceSetAttributeURIValue(theElement, WSDLConstants.TYPE_ATTRIBUTE, qName.getNamespaceURI() +
                "#" + qName.getLocalPart());
            }
        }
    }
}

protected Element createElement()
{
    Element newElement = createElement(WSDLConstants.BINDING);
    setElement(newElement);

    Iterator iterator = getExtensibilityElements().iterator();
    while (iterator.hasNext())
    {
        ExtensibilityElement extensibilityElement = (ExtensibilityElement)iterator.next();
        Element child = ((ExtensibilityElementImpl)extensibilityElement).createElement();
        newElement.appendChild(child);
    }

    iterator = getEBindingOperations().iterator();
    while (iterator.hasNext())
    {
        BindingOperation operation = (BindingOperation)iterator.next();
        Element child = ((BindingOperationImpl)operation).createElement();
        newElement.appendChild(child);
    }

    return newElement;
}

public void reconcileReferences(boolean deep)
{
    if (element != null)

```

```

    {
        Definition definition = (Definition)getEnclosingDefinition();
        QName portTypeQName = createQName(definition,
element.getAttribute(WSDLConstants.TYPE_ATTRIBUTE), element);
        PortType newPortType = portTypeQName != null ? (PortType)definition.getPortType(portTypeQName) : null;
        if (newPortType != getEPortType())
        {
            setEPortType(newPortType);
        }
    }
    super.reconcileReferences(deep);
}
} //BindingImpl
/*****
* Copyright (c) 2001, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

import javax.xml.wsdl.Message;

import org.eclipse.emf.ecore.EClass;
import org.eclipse.wst.wsdl.Input;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Input</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * </p>
 *
 * @generated
 */
public class InputImpl extends MessageReferenceImpl implements Input
{
    /**
     * This class is not intended to be serialized.

```

```

* serialVersionUID is assigned with 1L to avoid
* compiler warning messages.
*/
private static final long serialVersionUID = 1L;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected InputImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.INPUT;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Message getMessage()
{
    return getEMessage();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setMessage(Message message)
{
    setEMessage((org.eclipse.wst.wsdl.Message)message);
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.INPUT);
}

```

```

    setElement(newElement);
    return newElement;
}
} //InputImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

import java.util.ArrayList;
import java.util.Collection;
import java.util.Iterator;
import java.util.List;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.common.notify.NotificationChain;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.emf.ecore.util.EObjectContainmentEList;
import org.eclipse.emf.ecore.util.InternalEList;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.Operation;
import org.eclipse.wst.wsdl.PortType;
import org.eclipse.wst.wsdl.WSDLFactory;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.internal.util.WSDLUtil;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Port Type</b></em>'.
 * <!-- end-user-doc -->

```

```

* <p>
* The following features are implemented:
* <ul>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.PortTypeImpl#getQName <em>QName</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.PortTypeImpl#isUndefined <em>Undefined</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.PortTypeImpl#getEOperations <em>EOperations</em>}</li>
* </ul>
* </p>
*
* @generated
*/
public class PortTypeImpl extends ExtensibleElementImpl implements PortType
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The default value of the '{ @link #getQName() <em>QName</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getQName()
 * @generated
 * @ordered
 */
protected static final QName QNAME_EDEFAULT = null;

/**
 * The cached value of the '{ @link #getQName() <em>QName</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getQName()
 * @generated
 * @ordered
 */
protected QName qName = QNAME_EDEFAULT;

/**
 * The default value of the '{ @link #isUndefined() <em>Undefined</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #isUndefined()
 * @generated
 * @ordered
 */

```



```

protected static final boolean UNDEFINED_EDEFAULT = false;

/**
 * The cached value of the '{@link #isUndefined() <em>Undefined</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #isUndefined()
 * @generated
 * @ordered
 */
protected boolean undefined = UNDEFINED_EDEFAULT;

/**
 * The cached value of the '{@link #getEOperations() <em>EOperations</em>}' containment reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEOperations()
 * @generated
 * @ordered
 */
protected EList eOperations;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected PortTypeImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.PORT_TYPE;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public QName getQName()

```

```

{
    return qName;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setQName(QName newQName)
{
    QName oldQName = qName;
    qName = newQName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.PORT_TYPE__QNAME, oldQName,
qName));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean isUndefined()
{
    return undefined;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setUndefined(boolean newUndefined)
{
    boolean oldUndefined = undefined;
    undefined = newUndefined;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.PORT_TYPE__UNDEFINED,
oldUndefined, undefined));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEOperations()

```

```

{
    if (eOperations == null)
    {
        eOperations = new EObjectContainmentEList(Operation.class, this,
WSDLPackage.PORT_TYPE__EOPERATIONS);
    }
    return eOperations;
}

/**
 * <!-- begin-user-doc -->
 * Add an operation to this port type.
 * @param operation the operation to be added
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addOperation(javax.wsdl.Operation operation)
{
    if (!operation.isUndefined())
        getEOperations().add(operation);
}

/**
 * <!-- begin-user-doc -->
 * Get the specified operation. Note that operation names can
 * be overloaded within a PortType. In case of overloading, the
 * names of the input and output messages can be used to further
 * refine the search.
 * @param name the name of the desired operation.
 * @param inputName the name of the input message; if this is null
 * it will be ignored.
 * @param outputName the name of the output message; if this is null
 * it will be ignored.
 * @return the corresponding operation, or null if there wasn't
 * any matching operation
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Operation getOperation(String name, String inputName, String outputName)
{
    Iterator opIterator = getOperations().iterator();
    while (opIterator.hasNext())
    {
        javax.wsdl.Operation op = (javax.wsdl.Operation)opIterator.next();
        if (op == null)
            continue;

        String opName = op.getName();

```

```

if (name != null && opName != null)
{
    if (!name.equals(opName))
        op = null;
}
else if (name != null || opName != null)
    op = null;

if (op != null && inputName != null)
{
    javax.wsdl.Input input = op.getInput();
    if (input != null)
    {
        String opInputName = input.getName();
        if (opInputName == null || !opInputName.equals(inputName))
            op = null;
    }
    else
        op = null;
}

if (op != null && outputName != null)
{
    javax.wsdl.Output output = op.getOutput();
    if (output != null)
    {
        String opOutputName = output.getName();
        if (opOutputName == null || !opOutputName.equals(outputName))
            op = null;
    }
    else
        op = null;
}

if (op != null)
    return op;
} // end while
return null;
}

/**
 * <!-- begin-user-doc -->
 * Get all the operations defined here.
 * <!-- end-user-doc -->
 * @generated NOT
 */
public List getOperations()
{

```

```

if (!isUndefined())
    return getEOperations();
else
    return new ArrayList();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case WSDLPackage.PORT_TYPE__EOPERATIONS:
            return ((InternalEList)getEOperations()).basicRemove(otherEnd, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.PORT_TYPE__QNAME:
            return getQName();
        case WSDLPackage.PORT_TYPE__UNDEFINED:
            return isUndefined() ? Boolean.TRUE : Boolean.FALSE;
        case WSDLPackage.PORT_TYPE__EOPERATIONS:
            return getEOperations();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)

```

```

    {
        case WSDLPackage.PORT_TYPE__QNAME:
            setQName((QName)new Value);
            return;
        case WSDLPackage.PORT_TYPE__UNDEFINED:
            setUndefined(((Boolean)new Value).booleanValue());
            return;
        case WSDLPackage.PORT_TYPE__EOPERATIONS:
            getEOperations().clear();
            getEOperations().addAll((Collection)new Value);
            return;
    }
    super.eSet(featureID, new Value);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        {
            case WSDLPackage.PORT_TYPE__QNAME:
                setQName(QNAME_EDEFAULT);
                return;
            case WSDLPackage.PORT_TYPE__UNDEFINED:
                setUndefined(UNDEFINED_EDEFAULT);
                return;
            case WSDLPackage.PORT_TYPE__EOPERATIONS:
                getEOperations().clear();
                return;
        }
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        {
            case WSDLPackage.PORT_TYPE__QNAME:
                return QNAME_EDEFAULT == null ? qName != null : !QNAME_EDEFAULT.equals(qName);
        }
    }
}

```

```

    case WSDLPackage.PORT_TYPE__UNDEFINED:
    return undefined != UNDEFINED_EDEFAULT;
    case WSDLPackage.PORT_TYPE__EOPERATIONS:
    return eOperations != null && !eOperations.isEmpty();
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (qName: "); //$NON-NLS-1$
    result.append(qName);
    result.append(", undefined: "); //$NON-NLS-1$
    result.append(undefined);
    result.append(')');
    return result.toString();
}

//
// Reconcile methods
//

public void reconcileAttributes(Element changedElement)
{
    Definition definition = getEnclosingDefinition();
    String name = changedElement.getAttribute(WSDLConstants.NAME_ATTRIBUTE);
    QName qname = new QName(definition.getTargetNamespace(), name == null ? "" : name); //$NON-NLS-1$
    setQName(qname);
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    switch (WSDLUtil.getInstance().getWSDLType(child))
    {
        case WSDLConstants.OPERATION:
        {
            Operation operation = WSDLFactory.eINSTANCE.createOperation();
            operation.setEnclosingDefinition(getEnclosingDefinition());
            operation.setElement(child);
        }
    }
}

```

```

        getEOperations().add(operation);
        break;
    }
    default:
    {
        super.handleUnreconciledElement(child, remainingModelObjects);
        break;
    }
}

protected void handleReconciliation(Collection remainingModelObjects)
{
    for (Iterator i = remainingModelObjects.iterator(); i.hasNext();)
    {
        remove(this, i.next());
    }
}

protected void remove(Object component, Object modelObject)
{
    List list = getList(component, modelObject);
    if (list != null)
    {
        list.remove(modelObject);
    }
}

private List getList(Object component, Object modelObject)
{
    List result = null;
    PortType portType = (PortType)component;
    if (modelObject instanceof Operation)
    {
        result = portType.getEOperations();
    }
    else if (modelObject instanceof ExtensibilityElement)
    {
        result = getExtensibilityElements();
    }

    return result;
}

public Collection getModelObjects(Object component)
{
    PortType portType = (PortType)component;

```



```

List list = portType.getEOperations();
return list;
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == WSDLPackage.Literals.PORT_TYPE__QNAME)
            niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getQName().getLocalPart());
    }
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.PORT_TYPE);
    setElement(newElement);

    Iterator iterator = getEOperations().iterator();
    while (iterator.hasNext())
    {
        Operation operation = (Operation)iterator.next();
        Element child = ((OperationImpl)operation).createElement();
        newElement.appendChild(child);
    }

    return newElement;
}
} //PortTypeImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/

```

```

package org.eclipse.wst.wsd.internal.impl;

import java.util.ArrayList;
import java.util.Collection;
import java.util.Iterator;
import java.util.List;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.wst.wsd.Definition;
import org.eclipse.wst.wsd.ExtensibilityElement;
import org.eclipse.wst.wsd.Types;
import org.eclipse.wst.wsd.WSDLFactory;
import org.eclipse.wst.wsd.WSDLPackage;
import org.eclipse.wst.wsd.XSDSchemaExtensibilityElement;
import org.eclipse.wst.wsd.util.WSDLConstants;
import org.eclipse.xsd.XSDSchema;
import org.eclipse.xsd.util.XSDConstants;
import org.w3c.dom.DOMException;
import org.w3c.dom.Document;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Types</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * </p>
 *
 * @generated
 */
public class TypesImpl extends ExtensibleElementImpl implements Types
{
    /**
     * This class is not intended to be serialized.
     * serialVersionUID is assigned with 1L to avoid
     * compiler warning messages.
     */
    private static final long serialVersionUID = 1L;

    /**
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @generated
     */
    protected TypesImpl()

```

```

{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.TYPES;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public List getSchemas()
{
    List arrayList = new ArrayList();
    for (Iterator i = getEExtensibilityElements().iterator(); i.hasNext();)
    {
        ExtensibilityElement extensibilityElement = (ExtensibilityElement)i.next();
        if (!(extensibilityElement instanceof XSDSchemaExtensibilityElement))
        {
            continue;
        }
        XSDSchemaExtensibilityElement xsdee = (XSDSchemaExtensibilityElement)extensibilityElement;
        if (xsdee.getSchema() != null)
        {
            arrayList.add(xsdee.getSchema());
        }
    }
    return arrayList;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public List getSchemas(String namespaceURI)
{
    List schemas = new ArrayList();
    for (Iterator i = getSchemas().iterator(); i.hasNext();)
    {

```

```

XSDSchema schema = (XSDSchema)i.next();
if (namespaceURI == null && schema.getTargetNamespace() == null)
{
    schemas.add(schema);
}
else if (namespaceURI != null && namespaceURI.equals(schema.getTargetNamespace()))
{
    schemas.add(schema);
}
}
return schemas;
}

public void eNotify(Notification msg)
{
    super.eNotify(msg);

    // cs.. if we've added an XSDSchemaExtensibilityElementImpl and the Types object is already attached
    // to a resource we need to set the schemaLocation for the inline schema.
    // If not yet attached to a resource, the schemaLocation's will be set via WSDLResourceImpl.attached(EObject o)
    //
    if (msg.getFeature() == WSDLPackage.Literals.EXTENSIBLE_ELEMENT__EEXTENSIBILITY_ELEMENTS
    && msg.getEventType() == Notification.ADD)
    {
        if (msg.getNewValue() instanceof XSDSchemaExtensibilityElementImpl)
        {
            XSDSchemaExtensibilityElementImpl ee = (XSDSchemaExtensibilityElementImpl)msg.getNewValue();
            if (ee.getSchema() != null && ee.getSchema().eResource() != null)
            {
                ee.getSchema().setSchemaLocation(ee.getSchema().eResource().getURI().toString());
            }
        }
    }
}

//
// Reconcile methods
//

public void reconcileAttributes(Element changedElement)
{
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    if (XSDConstants.SCHEMA_ELEMENT_TAG.equals(child.getLocalName()))
    {
        try

```

```

    {
        XSDSchemaExtensibilityElement xsdee =
WSDLFactory.eINSTANCE.createXSDSchemaExtensibilityElement();
        xsdee.setEnclosingDefinition(getEnclosingDefinition());
        xsdee.setElement(child); // cs : this has the side effect of creating the inline schema
        addExtensibilityElement(xsdee);
    }
    catch (Exception e)
    {
        e.printStackTrace();
    }
}
else
{
    super.handleUnreconciledElement(child, remainingModelObjects);
}
}

protected void handleReconciliation(Collection remainingModelObjects)
{
    super.handleReconciliation(remainingModelObjects);
    ((DefinitionImpl)getEnclosingDefinition()).reconcileReferences(true);
}

public Collection getModelObjects(Object component)
{
    Types types = (Types)component;
    List list = new ArrayList();
    list.addAll(types.getEExtensibilityElements());
    return list;
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.TYPES);
    setElement(newElement);

    // Add children
    Definition definition = getEnclosingDefinition();
    if (definition == null)
        return newElement;

    Document document = definition.getDocument();
    if (document == null)
        document = ((DefinitionImpl)definition).updateDocument();

    Iterator iter = getEExtensibilityElements().iterator();
    Element el = null;

```

```

while (iter.hasNext())
{
    ExtensibilityElement extensibility = (ExtensibilityElement)iter.next();
    el = extensibility.getElement();
    if (el != null)
    {
        try
        {
            Element reParented = (Element)document.importNode(el, true);
            extensibility.setElement(reParented); // replace with the new one
            newElement.appendChild(reParented);
        }
        catch (DOMException e)
        {
            e.printStackTrace();
            return newElement;
        }
    }
    else
    {
        Element child = ((ExtensibilityElementImpl)extensibility).createElement();
        newElement.appendChild(child);
    }
}

return newElement;
}
} //TypesImpl
/*****
* Copyright (c) 2001, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

import javax.xml.ws.Message;

import org.eclipse.emf.ecore.EClass;
import org.eclipse.wst.wsdl.Fault;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

```

```

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Fault</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * </p>
 *
 * @generated
 */
public class FaultImpl extends MessageReferenceImpl implements Fault
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected FaultImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.FAULT;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Message getMessage()
{
    return getEMessage();
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setMessage(Message message)
{
    setEMessage((org.eclipse.wst.wsdl.Message)message);
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.FAULT);
    setElement(newElement);
    return newElement;
}
} //FaultImpl
/*****
 * Copyright (c) 2001, 2009 IBM Corporation and others.
 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/
package org.eclipse.wst.wsdl.internal.impl;

import java.util.ArrayList;
import java.util.Collection;
import java.util.Iterator;
import java.util.List;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsdl.BindingFault;
import org.eclipse.wst.wsdl.BindingOperation;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.Fault;
import org.eclipse.wst.wsdl.Operation;
import org.eclipse.wst.wsdl.WSDLPackage;

```



```

import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Binding Fault</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.BindingFaultImpl#getName <em>Name</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.BindingFaultImpl#getEFault <em>EFault</em> }</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class BindingFaultImpl extends ExtensibleElementImpl implements BindingFault
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The default value of the '{ @link #getName() <em>Name</em> }' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getName()
 * @generated
 * @ordered
 */
protected static final String NAME_EDEFAULT = null;

/**
 * The cached value of the '{ @link #getName() <em>Name</em> }' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getName()
 * @generated
 * @ordered
 */
protected String name = NAME_EDEFAULT;

/**

```

```

* The cached value of the '{@link #getEFault() <em>EFault</em>}' reference.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getEFault()
* @generated
* @ordered
*/
protected Fault eFault;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected BindingFaultImpl()
{
    super();
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.BINDING_FAULT;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String getName()
{
    return name;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setName(String newName)
{
    String oldName = name;
    name = newName;
}

```

```

    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.BINDING_FAULT__NAME, oldName,
name));
    }

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Fault getEFault()
{
    if (eFault != null && eFault.eIsProxy())
    {
        InternalEObject oldEFault = (InternalEObject)eFault;
        eFault = (Fault)eResolveProxy(oldEFault);
        if (eFault != oldEFault)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE, WSDLPackage.BINDING_FAULT__EFAULT,
oldEFault, eFault));
        }
    }
    return eFault;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Fault basicGetEFault()
{
    return eFault;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEFault(Fault newEFault)
{
    Fault oldEFault = eFault;
    eFault = newEFault;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.BINDING_FAULT__EFAULT,
oldEFault, eFault));
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Fault getFault()
{
    return getEFault();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setFault(javax.wsdl.Fault fault)
{
    setEFault((Fault)fault);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_FAULT__NAME:
            return getName();
        case WSDLPackage.BINDING_FAULT__EFAULT:
            if (resolve)
                return getEFault();
            return basicGetEFault();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{

```

```

switch (featureID)
{
    case WSDLPackage.BINDING_FAULT__NAME:
        setName((String)newValue);
        return;
    case WSDLPackage.BINDING_FAULT__EFAULT:
        setEFault((Fault)newValue);
        return;
}
super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_FAULT__NAME:
            setName(NAME_EDEFAULT);
            return;
        case WSDLPackage.BINDING_FAULT__EFAULT:
            setEFault((Fault)null);
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_FAULT__NAME:
            return NAME_EDEFAULT == null ? name != null : !NAME_EDEFAULT.equals(name);
        case WSDLPackage.BINDING_FAULT__EFAULT:
            return eFault != null;
    }
    return super.eIsSet(featureID);
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (name: "); //$NON-NLS-1$
    result.append(name);
    result.append(')');
    return result.toString();
}

//
// Reconcile methods
//

public void reconcileAttributes(Element changedElement)
{
    String name = changedElement.getAttribute("name");
    if (name != null)
    {
        setName(name);
    }
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    super.handleUnreconciledElement(child, remainingModelObjects);
}

public Collection getModelObjects(Object component)
{
    BindingFault bindingFault = (BindingFault)component;
    List list = new ArrayList();
    list.addAll(bindingFault.getEExtensibilityElements());
    return list;
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)

```

```

{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == WSDLPackage.Literals.BINDING_FAULT__NAME)
            niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getName());
    }
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.FAULT);
    setElement(newElement);

    Iterator iterator = getExtensibilityElements().iterator();
    while (iterator.hasNext())
    {
        ExtensibilityElement extensibilityElement = (ExtensibilityElement)iterator.next();
        Element child = ((ExtensibilityElementImpl)extensibilityElement).createElement();
        newElement.appendChild(child);
    }

    return newElement;
}

// Resolve the reference to Fault
public void reconcileReferences(boolean deep)
{
    if (element != null)
    {
        BindingOperation bindingOperation = (BindingOperation)getContainer();
        Operation operation = bindingOperation.getEOperation();
        String faultName = getName();

        if (operation != null && faultName != null)
        {
            javax.wsdl.Fault fault = operation.getFault(faultName);

            if (fault != getFault())
            {
                setFault(fault);
            }
        }
    }
}

```

```

    super.reconcileReferences(deep);
}
} //BindingFaultImpl
/*****
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* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl.wsdl4j;

```

```

import javax.wsdl.Definition;
import javax.wsdl.extensions.ExtensionRegistry;
import javax.wsdl.factory.WSDLFactory;
import javax.wsdl.xml.WSDLReader;
import javax.wsdl.xml.WSDLWriter;

```

```

public final class WSDLFactoryImpl extends WSDLFactory
{

    //public static WSDLFactory newInstance() throws WSDLException
    //{
    //    return new WSDLFactoryImpl();
    //}

    public WSDLFactoryImpl()
    {

    }

    public Definition newDefinition()
    {
        return org.eclipse.wst.wsdl.internal.impl.WSDLFactoryImpl.eINSTANCE.createDefinition();
    }

    public ExtensionRegistry newPopulatedExtensionRegistry()
    {
        return null;
    }

    public WSDLReader newWSDLReader()
    {
        WSDLReader reader = new WSDLReaderImpl();
    }

```



```

    reader.setFactoryImplName(getClass().getName());
    return reader;
}

public WSDLWriter newWSDLWriter()
{
    return new WSDLWriterImpl();
}
}

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* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl.wsdl4j;

import java.io.IOException;
import java.io.InputStream;

import javax.wsdl.Definition;
import javax.wsdl.WSDLException;
import javax.wsdl.extensions.ExtensionRegistry;
import javax.wsdl.xml.WSDLLocator;
import javax.wsdl.xml.WSDLReader;

import org.eclipse.emf.common.util.URI;
import org.eclipse.emf.ecore.resource.ResourceSet;
import org.eclipse.emf.ecore.resource.impl.ResourceSetImpl;
import org.eclipse.wst.wsdl.internal.util.WSDLResourceFactoryImpl;
import org.eclipse.wst.wsdl.util.WSDLResourceImpl;
import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.xml.sax.InputSource;

public final class WSDLReaderImpl implements WSDLReader
{
    private String factoryImplName;

    private ExtensionRegistry extReg;

    public ExtensionRegistry getExtensionRegistry()

```

```

    {
        return extReg;
    }

    public void setExtensionRegistry(ExtensionRegistry extReg)
    {
        this.extReg = extReg;
    }

    public String getFactoryImplName()
    {
        return factoryImplName;
    }

    public void setFactoryImplName(String factoryImplName) throws UnsupportedOperationException
    {
        this.factoryImplName = factoryImplName;
    }

    public boolean getFeature(String name) throws IllegalArgumentException
    {
        return false;
    }

    public void setFeature(String name, boolean value) throws IllegalArgumentException
    {
        throw new IllegalArgumentException("Not Implemented");
    }

    /**
     * Read the WSDL document accessible via the specified
     * URI into a WSDL definition.
     *
     * @param wsdlURI a URI (can be a filename or URL) pointing to a
     * WSDL XML definition.
     * @return the definition.
     */
    public Definition readWSDL(String wsdlURI) throws WSDLException
    {
        URI uri;
        if (hasProtocol(wsdlURI))
            uri = URI.createURI(wsdlURI);
        else
            uri = URI.createFileURI(wsdlURI);

        // Create a resource set, create a wsdl resource, and load the main wsdl file into it.

        ResourceSet resourceSet = new ResourceSetImpl();

```

```

    resourceSet.getResourceFactoryRegistry().getExtensionToFactoryMap().put("wsdl", new
WSDLResourceFactoryImpl());

    WSDLResourceImpl wsdlMainResource =
(WSDLResourceImpl)resourceSet.createResource(URI.createURI("*.wsdl"));
    wsdlMainResource.setURI(uri);

    try
    {
        InputStream inputStream = resourceSet.getURIConverter().createInputStream(uri);
        wsdlMainResource.load(inputStream, resourceSet.getLoadOptions());
        //wsdlMainResource.load(resourceSet.getLoadOptions());
    }
    catch (IOException e)
    {
        throw new WSDLException(WSDLException.INVALID_WSDL, "WSDL URI: " + wsdlURI, e);
    }

    // Return the definitions of the main resource.
    return wsdlMainResource.getDefinition();
}

private boolean hasProtocol(String uri)
{
    boolean result = false;
    if (uri != null)
    {
        int index = uri.indexOf(":");
        if (index != -1 && index > 2) // assume protocol with be length 3 so that the 'C' in 'C:/' is not interpreted as a
protocol
        {
            result = true;
        }
    }
    return result;
}

/**
 * Read the WSDL document accessible via the specified
 * URI into a WSDL definition.
 *
 * @param contextURI the context in which to resolve the
 * wsdlURI, if the wsdlURI is relative. Can be null, in which
 * case it will be ignored.
 * @param wsdlURI a URI (can be a filename or URL) pointing to a
 * WSDL XML definition.
 * @return the definition.
 */

```

```

public Definition readWSDL(String contextURI, String wsdlURI) throws WSDLException
{
    throw new WSDLException(WSDLException.OTHER_ERROR, "Not Implemented");
}

/**
 * Read the specified <wsdl:definitions> element into a WSDL
 * definition.
 *
 * @param documentBaseURI the document base URI of the WSDL definition
 * described by the element. Will be set as the documentBaseURI
 * of the returned Definition. Can be null, in which case it
 * will be ignored.
 * @param definitionsElement the <wsdl:definitions> element
 * @return the definition described by the element.
 */
public Definition readWSDL(String documentBaseURI, Element definitionsElement) throws WSDLException
{
    throw new WSDLException(WSDLException.OTHER_ERROR, "Not Implemented");
}

/**
 * Read the specified WSDL document into a WSDL definition.
 *
 * @param documentBaseURI the document base URI of the WSDL definition
 * described by the document. Will be set as the documentBaseURI
 * of the returned Definition. Can be null, in which case it
 * will be ignored.
 * @param wsdlDocument the WSDL document, an XML
 * document obeying the WSDL schema.
 * @return the definition described in the document.
 */
public Definition readWSDL(String documentBaseURI, Document wsdlDocument) throws WSDLException
{
    throw new WSDLException(WSDLException.OTHER_ERROR, "Not Implemented");
}

/**
 * Read a WSDL document into a WSDL definition.
 *
 * @param documentBaseURI the document base URI of the WSDL definition
 * described by the document. Will be set as the documentBaseURI
 * of the returned Definition. Can be null, in which case it
 * will be ignored.
 * @param inputSource an InputSource pointing to the
 * WSDL document, an XML document obeying the WSDL schema.
 * @return the definition described in the document pointed to
 * by the InputSource.

```

```

*/
public Definition readWSDL(String documentBaseURI, InputSource inputSource) throws WSDLException
{
    ResourceSet resourceSet = new ResourceSetImpl();
    resourceSet.getResourceFactoryRegistry().getExtensionToFactoryMap().put("wsdl", new
WSDLResourceFactoryImpl());
    WSDLResourceImpl wsdlMainResource =
(WSDLResourceImpl)resourceSet.createResource(URI.createURI("*.wsdl"));

    try
    {
        if (documentBaseURI != null)
            wsdlMainResource.setURI(createURI(documentBaseURI));
        resourceSet.getLoadOptions().put(WSDLResourceImpl.CONTINUE_ON_LOAD_ERROR, new
Boolean(false));
        wsdlMainResource.load(inputSource.getByteStream(), resourceSet.getLoadOptions());
    }
    catch (IOException ioe)
    {
        throw new WSDLException(WSDLException.INVALID_WSDL, "", ioe);
    }

    Definition definition = wsdlMainResource.getDefinition();
    if (definition != null)
        definition.setDocumentBaseURI(documentBaseURI);

    return definition;
}

/**
 * Read a WSDL document into a WSDL definition.
 *
 * @param locator A WSDLLocator object used to provide InputSources
 * pointing to the wsdl file.
 * @return the definition described in the document
 */
public Definition readWSDL(WSDLLocator locator) throws WSDLException
{
    throw new WSDLException(WSDLException.OTHER_ERROR, "Not Implemented");
}

private URI createURI(String uriString)
{
    if (hasProtocol(uriString))
        return URI.createURI(uriString);
    else
        return URI.createFileURI(uriString);
}

```

```

}
/*****
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* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl.wsdl4j;

```

```

import java.io.IOException;
import java.io.OutputStream;
import java.io.Writer;

```

```

import javax.wsdl.Definition;
import javax.wsdl.WSDLException;
import javax.wsdl.xml.WSDLWriter;
import javax.xml.transform.OutputKeys;
import javax.xml.transform.Transformer;
import javax.xml.transform.TransformerException;
import javax.xml.transform.TransformerFactory;
import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.stream.StreamResult;

```

```

import org.eclipse.emf.ecore.resource.Resource;
import org.eclipse.wst.wsdl.internal.impl.DefinitionImpl;
import org.w3c.dom.Document;

```

```

public final class WSDLWriterImpl implements WSDLWriter
{
/**
* Sets the specified feature to the specified value.
* <p>
* There are no minimum features that must be supported.
* <p>
* All feature names must be fully-qualified, Java package style. All
* names starting with javax.wsdl. are reserved for features defined
* by the JWSDL specification. It is recommended that implementation-
* specific features be fully-qualified to match the package name
* of that implementation. For example: com.abc.featureName
*
* @param name the name of the feature to be set.

```

```

* @param value the value to set the feature to.
* @throws IllegalArgumentException if the feature name is not recognized.
* @see #getFeature(String)
*/
public void setFeature(String name, boolean value) throws IllegalArgumentException
{
    throw new IllegalArgumentException("Not Implemented");
}

/**
* Gets the value of the specified feature.
*
* @param name the name of the feature to get the value of.
* @throws IllegalArgumentException if the feature name is not recognized.
* @see #setFeature(String, boolean)
*/
public boolean getFeature(String name) throws IllegalArgumentException
{
    throw new IllegalArgumentException("Not Implemented");
}

/**
* Return a document generated from the specified WSDL model.
*/
public Document getDocument(Definition wsdlDef) throws WSDLException
{
    return ((DefinitionImpl)wsdlDef).getDocument();
}

/**
* Write the specified WSDL definition to the specified Writer.
*
* @param wsdlDef the WSDL definition to be written.
* @param sink the Writer to write the xml to.
*/
public void writeWSDL(Definition wsdlDef, Writer sink) throws WSDLException
{
    String encoding = null;
    try
    {
        TransformerFactory transformerFactory = TransformerFactory.newInstance();
        Transformer transformer = transformerFactory.newTransformer();

        transformer.setOutputProperty(OutputKeys.INDENT, "yes");
        transformer.setOutputProperty(OutputKeys.METHOD, "xml");

        // Unless a width is set, there will be only line breaks but no indentation.
        // The IBM JDK and the Sun JDK don't agree on the property name,

```

```

// so we set them both.
//
transformer.setOutputProperty("{http://xml.apache.org/xalan}indent-amount", "2");
transformer.setOutputProperty("{http://xml.apache.org/xslt}indent-amount", "2");
if (encoding != null)
{
    transformer.setOutputProperty(OutputKeys.ENCODING, encoding);
}

Document document = ((DefinitionImpl)wsdlDef).getDocument();
if (document == null)
{
    ((DefinitionImpl)wsdlDef).updateElement(true);
    document = ((DefinitionImpl)wsdlDef).getDocument();
}

transformer.transform(new DOMSource(document), new StreamResult(sink));
}
catch (TransformerException exception)
{
    throw new WSDLErrorException(WSDLErrorException.OTHER_ERROR, "Failed to save Definitions.", exception);
}

}

/**
 * Write the specified WSDL definition to the specified OutputStream.
 *
 * @param wsdlDef the WSDL definition to be written.
 * @param sink the OutputStream to write the xml to.
 */
public void writeWSDL(Definition wsdlDef, OutputStream sink) throws WSDLErrorException
{
    Resource resource = ((DefinitionImpl)wsdlDef).eResource();
    try
    {
        resource.save(sink, null);
    }
    catch (IOException e)
    {
        throw new WSDLErrorException(WSDLErrorException.OTHER_ERROR, "Failed to save Definitions.", e);
    }
}

}

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* which accompanies this distribution, and is available at

* <http://www.eclipse.org/legal/epl-v10.html>

*

* Contributors:

* IBM Corporation - initial API and implementation

*****/

package org.eclipse.wst.wsdl.internal.impl;

import java.util.ArrayList;

import java.util.Collection;

import java.util.HashMap;

import java.util.Iterator;

import java.util.List;

import java.util.Map;

import org.eclipse.emf.common.notify.Notification;

import org.eclipse.emf.common.notify.NotificationChain;

import org.eclipse.emf.common.util.EList;

import org.eclipse.emf.ecore.EAttribute;

import org.eclipse.emf.ecore.EClass;

import org.eclipse.emf.ecore.InternalEObject;

import org.eclipse.emf.ecore.impl.ENotificationImpl;

import org.eclipse.emf.ecore.util.EObjectContainmentEList;

import org.eclipse.emf.ecore.util.InternalEList;

import org.eclipse.wst.wsdl.Binding;

import org.eclipse.wst.wsdl.BindingFault;

import org.eclipse.wst.wsdl.BindingInput;

import org.eclipse.wst.wsdl.BindingOperation;

import org.eclipse.wst.wsdl.BindingOutput;

import org.eclipse.wst.wsdl.Definition;

import org.eclipse.wst.wsdl.ExtensibilityElement;

import org.eclipse.wst.wsdl.Operation;

import org.eclipse.wst.wsdl.PortType;

import org.eclipse.wst.wsdl.WSDLFactory;

import org.eclipse.wst.wsdl.WSDLPackage;

import org.eclipse.wst.wsdl.internal.util.WSDLUtil;

import org.eclipse.wst.wsdl.util.WSDLConstants;

import org.w3c.dom.Element;

/**

* <!-- begin-user-doc -->

* An implementation of the model object '*Binding Operation'.*

* <!-- end-user-doc -->

* <p>

* The following features are implemented:

```

* <ul>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.BindingOperationImpl#getName <em>Name</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.BindingOperationImpl#getEOperation
<em>EOperation</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.BindingOperationImpl#getEBindingInput <em>EBinding
Input</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.BindingOperationImpl#getEBindingOutput <em>EBinding
Output</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.BindingOperationImpl#getEBindingFaults <em>EBinding
Faults</em>}</li>
* </ul>

```

```

* </p>

```

```

*

```

```

* @generated

```

```

*/

```

```

public class BindingOperationImpl extends ExtensibleElementImpl implements BindingOperation

```

```

{

```

```

/**

```

```

* This class is not intended to be serialized.
* serialVersionUID is assigned with 1L to avoid
* compiler warning messages.
*/

```

```

private static final long serialVersionUID = 1L;

```

```

/**

```

```

* The default value of the '{ @link #getName() <em>Name</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getName()
* @generated
* @ordered
*/

```

```

protected static final String NAME_EDEFAULT = null;

```

```

/**

```

```

* The cached value of the '{ @link #getName() <em>Name</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getName()
* @generated
* @ordered
*/

```

```

protected String name = NAME_EDEFAULT;

```

```

/**

```

```

* The cached value of the '{ @link #getEOperation() <em>EOperation</em>}' reference.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->

```

```

* @see #getEOperation()
* @generated
* @ordered
*/
protected Operation eOperation;

/**
 * The cached value of the '{@link #getEBindingInput() <em>EBinding Input</em>}' containment reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEBindingInput()
 * @generated
 * @ordered
 */
protected BindingInput eBindingInput;

/**
 * The cached value of the '{@link #getEBindingOutput() <em>EBinding Output</em>}' containment reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEBindingOutput()
 * @generated
 * @ordered
 */
protected BindingOutput eBindingOutput;

/**
 * The cached value of the '{@link #getEBindingFaults() <em>EBinding Faults</em>}' containment reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEBindingFaults()
 * @generated
 * @ordered
 */
protected EList eBindingFaults;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected BindingOperationImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.BINDING_OPERATION;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String getName()
{
    return name;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setName(String newName)
{
    String oldName = name;
    name = newName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.BINDING_OPERATION__NAME,
oldName, name));
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public Operation getEOperation()
{
    if (eOperation != null && eOperation.eIsProxy())
    {
        InternalEObject oldEOperation = (InternalEObject)eOperation;
        eOperation = (Operation)eResolveProxy(oldEOperation);
        if (eOperation != oldEOperation)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE,
WSDLPackage.BINDING_OPERATION__EOPERATION, oldEOperation, eOperation));

```

```

    }
}
return eOperation;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Operation basicGetEOperation()
{
    return eOperation;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEOperation(Operation newEOperation)
{
    Operation oldEOperation = eOperation;
    eOperation = newEOperation;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET,
WSDLPackage.BINDING_OPERATION__EOPERATION, oldEOperation, eOperation));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public BindingInput getEBindingInput()
{
    return eBindingInput;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain basicSetEBindingInput(BindingInput newEBindingInput, NotificationChain msgs)
{
    BindingInput oldEBindingInput = eBindingInput;
    eBindingInput = newEBindingInput;

```

```

if (eNotificationRequired())
{
    ENotificationImpl notification = new ENotificationImpl(
        this,
        Notification.SET,
        WSDLPackage.BINDING_OPERATION__EBINDING_INPUT,
        oldEBindingInput,
        newEBindingInput);
    if (msgs == null)
        msgs = notification;
    else
        msgs.add(notification);
}
return msgs;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEBindingInput(BindingInput newEBindingInput)
{
    if (newEBindingInput != eBindingInput)
    {
        NotificationChain msgs = null;
        if (eBindingInput != null)
            msgs = ((InternalEObject)eBindingInput).eInverseRemove(
                this,
                EOPOSITIVE_FEATURE_BASE - WSDLPackage.BINDING_OPERATION__EBINDING_INPUT,
                null,
                msgs);
        if (newEBindingInput != null)
            msgs = ((InternalEObject)newEBindingInput).eInverseAdd(
                this,
                EOPOSITIVE_FEATURE_BASE - WSDLPackage.BINDING_OPERATION__EBINDING_INPUT,
                null,
                msgs);
        msgs = basicSetEBindingInput(newEBindingInput, msgs);
        if (msgs != null)
            msgs.dispatch();
    }
    else if (eNotificationRequired())
        eNotify(new ENotificationImpl(
            this,
            Notification.SET,
            WSDLPackage.BINDING_OPERATION__EBINDING_INPUT,
            newEBindingInput,

```

```

        newEBindingInput));
    }

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public BindingOutput getEBindingOutput()
{
    return eBindingOutput;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain basicSetEBindingOutput(BindingOutput newEBindingOutput, NotificationChain msgs)
{
    BindingOutput oldEBindingOutput = eBindingOutput;
    eBindingOutput = newEBindingOutput;
    if (eNotificationRequired())
    {
        ENotificationImpl notification = new ENotificationImpl(
            this,
            Notification.SET,
            WSDLPackage.BINDING_OPERATION__EBINDING_OUTPUT,
            oldEBindingOutput,
            newEBindingOutput);
        if (msgs == null)
            msgs = notification;
        else
            msgs.add(notification);
    }
    return msgs;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEBindingOutput(BindingOutput newEBindingOutput)
{
    if (newEBindingOutput != eBindingOutput)
    {
        NotificationChain msgs = null;

```

```

    if (eBindingOutput != null)
        msgs = ((InternalEObject)eBindingOutput).eInverseRemove(this, EOPPOSITE_FEATURE_BASE
            - WSDLPackage.BINDING_OPERATION__EBINDING_OUTPUT, null, msgs);
    if (newEBindingOutput != null)
        msgs = ((InternalEObject)newEBindingOutput).eInverseAdd(this, EOPPOSITE_FEATURE_BASE
            - WSDLPackage.BINDING_OPERATION__EBINDING_OUTPUT, null, msgs);
    msgs = basicSetEBindingOutput(newEBindingOutput, msgs);
    if (msgs != null)
        msgs.dispatch();
}
else if (eNotificationRequired())
    eNotify(new ENotificationImpl(
        this,
        Notification.SET,
        WSDLPackage.BINDING_OPERATION__EBINDING_OUTPUT,
        newEBindingOutput,
        newEBindingOutput));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEBindingFaults()
{
    if (eBindingFaults == null)
    {
        eBindingFaults = new EObjectContainmentEList(BindingFault.class, this,
WSDLPackage.BINDING_OPERATION__EBINDING_FAULTS);
    }
    return eBindingFaults;
}

/**
 * <!-- begin-user-doc -->
 * Add a fault binding.
 * @param fault the new fault binding
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addBindingFault(javax.xml.ws.BindingFault bindingFault)
{
    getEBindingFaults().add((BindingFault)bindingFault);
}

/**
 * <!-- begin-user-doc -->

```



```

* Get the specified fault binding.
* @param name the name of the desired fault binding.
* @return the corresponding fault binding, or null if there wasn't
* any matching fault binding
* <!-- end-user-doc -->
* @generated NOT
*/
public javax.wsdl.BindingFault getBindingFault(String name)
{
    BindingFault result = null;
    for (Iterator i = getEBindingFaults().iterator(); i.hasNext();)
    {
        BindingFault fault = (BindingFault)i.next();
        if (name.equals(fault.getName()))
        {
            result = fault;
            break;
        }
    }
    return result;
}

/**
* <!-- begin-user-doc -->
* Get all the fault bindings associated with this operation binding.
* @return names of fault bindings
* <!-- end-user-doc -->
* @generated NOT
*/
public Map getBindingFaults()
{
    HashMap hashMap = new HashMap();
    for (Iterator i = getEBindingFaults().iterator(); i.hasNext();)
    {
        BindingFault bindingFault = (BindingFault)i.next();
        hashMap.put(bindingFault.getName(), bindingFault);
    }
    return hashMap;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated NOT
*/
public javax.wsdl.Operation getOperation()
{
    return getEOperation();
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setOperation(javax.wsdl.Operation operation)
{
    setEOperation((Operation)operation);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.BindingInput getBindingInput()
{
    return getEBindingInput();
}

/**
 * <!-- begin-user-doc -->
 * Set the input of this operation binding.
 * @param input the desired input
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setBindingInput(javax.wsdl.BindingInput bindingInput)
{
    setEBindingInput((BindingInput)bindingInput);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.BindingOutput getBindingOutput()
{
    return getEBindingOutput();
}

/**
 * <!-- begin-user-doc -->
 * Set the output of this operation binding.
 * <!-- end-user-doc -->

```

```

* @generated NOT
*/
public void setBindingOutput(javax.wsdl.BindingOutput bindingOutput)
{
    setEBindingOutput((BindingOutput)bindingOutput);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_OPERATION__EBINDING_INPUT:
            return basicSetEBindingInput(null, msgs);
        case WSDLPackage.BINDING_OPERATION__EBINDING_OUTPUT:
            return basicSetEBindingOutput(null, msgs);
        case WSDLPackage.BINDING_OPERATION__EBINDING_FAULTS:
            return ((InternalEList)getEBindingFaults()).basicRemove(otherEnd, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_OPERATION__NAME:
            return getName();
        case WSDLPackage.BINDING_OPERATION__EOPERATION:
            if (resolve)
                return getEOperation();
            return basicGetEOperation();
        case WSDLPackage.BINDING_OPERATION__EBINDING_INPUT:
            return getEBindingInput();
        case WSDLPackage.BINDING_OPERATION__EBINDING_OUTPUT:
            return getEBindingOutput();
        case WSDLPackage.BINDING_OPERATION__EBINDING_FAULTS:
            return getEBindingFaults();
    }
}

```

```

return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_OPERATION__NAME:
            setName((String)newValue);
            return;
        case WSDLPackage.BINDING_OPERATION__EOPERATION:
            setEOperation((Operation)newValue);
            return;
        case WSDLPackage.BINDING_OPERATION__EBINDING_INPUT:
            setEBindingInput((BindingInput)newValue);
            return;
        case WSDLPackage.BINDING_OPERATION__EBINDING_OUTPUT:
            setEBindingOutput((BindingOutput)newValue);
            return;
        case WSDLPackage.BINDING_OPERATION__EBINDING_FAULTS:
            getEBindingFaults().clear();
            getEBindingFaults().addAll((Collection)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_OPERATION__NAME:
            setName(NAME_EDEFAULT);
            return;
        case WSDLPackage.BINDING_OPERATION__EOPERATION:
            setEOperation((Operation)null);
            return;
        case WSDLPackage.BINDING_OPERATION__EBINDING_INPUT:

```

```

        setEBindingInput((BindingInput)null);
        return;
        case WSDLPackage.BINDING_OPERATION__EBINDING_OUTPUT:
        setEBindingOutput((BindingOutput)null);
        return;
        case WSDLPackage.BINDING_OPERATION__EBINDING_FAULTS:
        getEBindingFaults().clear();
        return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_OPERATION__NAME:
        return NAME_EDEFAULT == null ? name != null : !NAME_EDEFAULT.equals(name);
        case WSDLPackage.BINDING_OPERATION__EOPERATION:
        return eOperation != null;
        case WSDLPackage.BINDING_OPERATION__EBINDING_INPUT:
        return eBindingInput != null;
        case WSDLPackage.BINDING_OPERATION__EBINDING_OUTPUT:
        return eBindingOutput != null;
        case WSDLPackage.BINDING_OPERATION__EBINDING_FAULTS:
        return eBindingFaults != null && !eBindingFaults.isEmpty();
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (name: "); //$NON-NLS-1$
    result.append(name);

```

```

    result.append('');
    return result.toString();
}

//
// Reconcile methods
//

public void reconcileAttributes(Element changedElement)
{
    String name = changedElement.getAttribute("name");
    if (name != null)
    {
        setName(name);
    }
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    Definition definition = getEnclosingDefinition();

    switch (WSDLUtil.getInstance().getWSDLType(child))
    {
        case WSDLConstants.INPUT:
        {
            BindingInput input = WSDLFactory.eINSTANCE.createBindingInput();
            input.setEnclosingDefinition(definition);
            input.setElement(child);
            setBindingInput(input);
            break;
        }
        case WSDLConstants.OUTPUT:
        {
            BindingOutput output = WSDLFactory.eINSTANCE.createBindingOutput();
            output.setEnclosingDefinition(definition);
            output.setElement(child);
            setBindingOutput(output);
            break;
        }
        case WSDLConstants.FAULT:
        {
            BindingFault fault = WSDLFactory.eINSTANCE.createBindingFault();
            fault.setEnclosingDefinition(definition);
            fault.setElement(child);
            addBindingFault(fault);
            break;
        }
        default:

```

```

    {
        super.handleUnreconciledElement(child, remainingModelObjects);
        break;
    }
}

protected void handleReconciliation(Collection remainingModelObjects)
{
    for (Iterator i = remainingModelObjects.iterator(); i.hasNext();)
    {
        remove(this, i.next());
    }
}

protected void remove(Object component, Object modelObject)
{
    BindingOperation bindingOperation = (BindingOperation)component;
    if (modelObject instanceof BindingInput)
    {
        bindingOperation.setEBindingInput(null);
    }
    else if (modelObject instanceof BindingOutput)
    {
        bindingOperation.setEBindingOutput(null);
    }
    else if (modelObject instanceof BindingFault)
    {
        bindingOperation.getEBindingFaults().remove(modelObject);
    }
    else
    {
        bindingOperation.getEExtensibilityElements().remove(modelObject);
    }
}

public Collection getModelObjects(Object component)
{
    BindingOperation bindingOperation = (BindingOperation)component;

    List list = new ArrayList();

    if (bindingOperation.getEBindingInput() != null)
    {
        list.add(bindingOperation.getEBindingInput());
    }

    if (bindingOperation.getEBindingOutput() != null)

```

```

    {
        list.add(bindingOperation.getEBindingOutput());
    }

    list.addAll(bindingOperation.getEBindingFaults());
    list.addAll(bindingOperation.getEExtensibilityElements());

    return list;
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == WSDLPackage.Literals.BINDING_OPERATION__NAME)
            niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getName());
    }
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.OPERATION);
    setElement(newElement);

    Iterator iterator = getExtensibilityElements().iterator();
    while (iterator.hasNext())
    {
        ExtensibilityElement extensibilityElement = (ExtensibilityElement)iterator.next();
        Element child = ((ExtensibilityElementImpl)extensibilityElement).createElement();
        newElement.appendChild(child);
    }

    BindingInput input = getEBindingInput();
    if (input != null)
    {
        Element child = ((BindingInputImpl)input).createElement();
        newElement.appendChild(child);
    }
}

```



```

BindingOutput output = getEBindingOutput();
if (output != null)
{
    Element child = ((BindingOutputImpl)output).createElement();
    newElement.appendChild(child);
}

iterator = getEBindingFaults().iterator();
while (iterator.hasNext())
{
    BindingFault fault = (BindingFault)iterator.next();
    Element child = ((BindingFaultImpl)fault).createElement();
    newElement.appendChild(child);
}

return newElement;
}

// Resolve the reference to Operation
public void reconcileReferences(boolean deep)
{
    if (element != null)
    {
        Binding binding = (Binding)getContainer();
        PortType portType = binding.getEPortType();
        if (portType != null)
        {
            BindingInput input = getEBindingInput();
            BindingOutput output = getEBindingOutput();

            String inputName = input != null ? input.getName() : null;
            String outputName = output != null ? output.getName() : null;

            setOperation(portType.getOperation(getName(), inputName, outputName));
        }
    }
    super.reconcileReferences(deep);
}
} //BindingOperationImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation

```

```
*****/
```

```
package org.eclipse.wst.wsdl.internal.impl;
```

```
import java.io.IOException;
```

```
import java.io.InputStream;
```

```
import org.eclipse.emf.common.notify.Notification;
```

```
import org.eclipse.emf.common.util.URI;
```

```
import org.eclipse.emf.ecore.EAttribute;
```

```
import org.eclipse.emf.ecore.EClass;
```

```
import org.eclipse.emf.ecore.InternalEObject;
```

```
import org.eclipse.emf.ecore.impl.ENotificationImpl;
```

```
import org.eclipse.emf.ecore.resource.Resource;
```

```
import org.eclipse.emf.ecore.resource.ResourceSet;
```

```
import org.eclipse.emf.ecore.util.EcoreUtil;
```

```
import org.eclipse.wst.wsdl.Definition;
```

```
import org.eclipse.wst.wsdl.Import;
```

```
import org.eclipse.wst.wsdl.WSDLFactory;
```

```
import org.eclipse.wst.wsdl.WSDLPackage;
```

```
import org.eclipse.wst.wsdl.internal.util.WSDLModelLocator;
```

```
import org.eclipse.wst.wsdl.util.WSDLConstants;
```

```
import org.eclipse.wst.wsdl.util.WSDLResourceImpl;
```

```
import org.eclipse.xsd.XSDSchema;
```

```
import org.eclipse.xsd.util.XSDConstants;
```

```
import org.eclipse.xsd.util.XSDResourceImpl;
```

```
import org.w3c.dom.Element;
```

```
import org.xml.sax.Attributes;
```

```
import org.xml.sax.SAXException;
```

```
import org.xml.sax.XMLReader;
```

```
import org.xml.sax.helpers.DefaultHandler;
```

```
import org.xml.sax.helpers.XMLReaderFactory;
```

```
/**
```

```
 * <!-- begin-user-doc -->
```

```
 * An implementation of the model object '<b>Import</b></em>'.
```

```
 * <!-- end-user-doc -->
```

```
 * <p>
```

```
 * The following features are implemented:
```

```
 * <ul>
```

```
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.ImportImpl#getNamespaceURI <em>Namespace URI</em> }</li>
```

```
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.ImportImpl#getLocationURI <em>Location URI</em> }</li>
```

```
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.ImportImpl#getEDefinition <em>EDefinition</em> }</li>
```

```
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.ImportImpl#getESchema <em>ESchema</em> }</li>
```

```
 * </ul>
```

```
 * </p>
```

```

*
* @generated
*/
public class ImportImpl extends ExtensibleElementImpl implements Import
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

protected boolean resolved;

/**
 * The default value of the '{@link #getNamespaceURI() <em>Namespace URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getNamespaceURI()
 * @generated
 * @ordered
 */
protected static final String NAMESPACE_URI_EDEFAULT = null;

/**
 * The cached value of the '{@link #getNamespaceURI() <em>Namespace URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getNamespaceURI()
 * @generated
 * @ordered
 */
protected String namespaceURI = NAMESPACE_URI_EDEFAULT;

/**
 * The default value of the '{@link #getLocationURI() <em>Location URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getLocationURI()
 * @generated
 * @ordered
 */
protected static final String LOCATION_URI_EDEFAULT = null;

/**
 * The cached value of the '{@link #getLocationURI() <em>Location URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @see #getLocationURI()
* @generated
* @ordered
*/
protected String locationURI = LOCATION_URI_EDEFAULT;

/**
 * The cached value of the '{@link #getEDefinition() <em>EDefinition</em>}' reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEDefinition()
 * @generated
 * @ordered
 */
protected Definition eDefinition;

/**
 * The cached value of the '{@link #getESchema() <em>ESchema</em>}' reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getESchema()
 * @generated
 * @ordered
 */
protected XSDSchema eSchema;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected ImportImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.IMPORT;
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public String getNamespaceURI()
{
    return namespaceURI;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setNamespaceURI(String newNamespaceURI)
{
    String oldNamespaceURI = namespaceURI;
    namespaceURI = newNamespaceURI;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.IMPORT__NAMESPACE_URI,
oldNamespaceURI, namespaceURI));
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String getLocationURI()
{
    return locationURI;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setLocationURI(String newLocationURI)
{
    String oldLocationURI = locationURI;
    locationURI = newLocationURI;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.IMPORT__LOCATION_URI,
oldLocationURI, locationURI));
}

/**
* <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public Definition getEDefinition()
{
    if (eDefinition != null && eDefinition.eIsProxy())
    {
        InternalEObject oldEDefinition = (InternalEObject)eDefinition;
        eDefinition = (Definition)eResolveProxy(oldEDefinition);
        if (eDefinition != oldEDefinition)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE, WSDLPackage.IMPORT__EDEFINITION,
oldEDefinition, eDefinition));
        }
    }
    return eDefinition;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public Definition basicGetEDefinition()
{
    return eDefinition;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setEDefinition(Definition newEDefinition)
{
    Definition oldEDefinition = eDefinition;
    eDefinition = newEDefinition;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.IMPORT__EDEFINITION,
oldEDefinition, eDefinition));
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/

```

```

public XSDSchema getESchema()
{
    if (eSchema != null && eSchema.eIsProxy())
    {
        InternalEObject oldESchema = (InternalEObject)eSchema;
        eSchema = (XSDSchema)eResolveProxy(oldESchema);
        if (eSchema != oldESchema)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE, WSDLPackage.IMPORT__ESCHEMA,
oldESchema, eSchema));
        }
    }
    return eSchema;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public XSDSchema basicGetESchema()
{
    return eSchema;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setESchema(XSDSchema newESchema)
{
    XSDSchema oldESchema = eSchema;
    eSchema = newESchema;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.IMPORT__ESCHEMA, oldESchema,
eSchema));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public XSDSchema getSchema()
{
    return getESchema();
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setSchema(XSDSchema schema)
{
    setESchema(schema);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.IMPORT__NAMESPACE_URI:
            return getNamespaceURI();
        case WSDLPackage.IMPORT__LOCATION_URI:
            return getLocationURI();
        case WSDLPackage.IMPORT__EDEFINITION:
            if (resolve)
                return getEDefinition();
            return basicGetEDefinition();
        case WSDLPackage.IMPORT__ESCHEMA:
            if (resolve)
                return getESchema();
            return basicGetESchema();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.IMPORT__NAMESPACE_URI:
            setNamespaceURI((String)newValue);

```



```

return;
case WSDLPackage.IMPORT__LOCATION_URI:
setLocationURI((String)newValue);
return;
case WSDLPackage.IMPORT__EDEFINITION:
setEDefinition((Definition)newValue);
return;
case WSDLPackage.IMPORT__ESCHEMA:
setESchema((XSDSchema)newValue);
return;
}
super.eSet(featureID, newValue);
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public void eUnset(int featureID)
{
switch (featureID)
{
case WSDLPackage.IMPORT__NAMESPACE_URI:
setNamespaceURI(NAMESPACE_URI_EDEFAULT);
return;
case WSDLPackage.IMPORT__LOCATION_URI:
setLocationURI(LOCATION_URI_EDEFAULT);
return;
case WSDLPackage.IMPORT__EDEFINITION:
setEDefinition((Definition)null);
return;
case WSDLPackage.IMPORT__ESCHEMA:
setESchema((XSDSchema)null);
return;
}
super.eUnset(featureID);
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public boolean eIsSet(int featureID)
{
switch (featureID)
{

```

```

        case WSDLPackage.IMPORT__NAMESPACE_URI:
            return NAMESPACE_URI_EDEFAULT == null ? namespaceURI != null :
!NAMESPACE_URI_EDEFAULT.equals(namespaceURI);
        case WSDLPackage.IMPORT__LOCATION_URI:
            return LOCATION_URI_EDEFAULT == null ? locationURI != null :
!LOCATION_URI_EDEFAULT.equals(locationURI);
        case WSDLPackage.IMPORT__EDEFINITION:
            return eDefinition != null;
        case WSDLPackage.IMPORT__ESCHEMA:
            return eSchema != null;
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (namespaceURI: "); //$NON-NLS-1$
    result.append(namespaceURI);
    result.append(", locationURI: "); //$NON-NLS-1$
    result.append(locationURI);
    result.append(')');
    return result.toString();
}

/**
 * @see Import#getDefinition()
 */
public javax.wsdl.Definition getDefinition()
{
    return getEDefinition();
}

/**
 * @see Import#setDefinition(Definition)
 */
public void setDefinition(javax.wsdl.Definition definition)
{
    setEDefinition((org.eclipse.wst.wsdl.Definition)definition);
}

```

```

//
// Reconcile methods
//
public void reconcileAttributes(Element changedElement)
{
    setNamespaceURI(WSDLConstants.getAttribute(changedElement,
WSDLConstants.NAMESPACE_ATTRIBUTE));
    setLocationURI(WSDLConstants.getAttribute(changedElement, WSDLConstants.LOCATION_ATTRIBUTE));
}

//
// For reconciliation: Model -> DOM
//
protected void changeAttribute(EAttribute eAttribute)
{
    // We need to set this boolean to false because the Import may point to a different location.
    // So we need we should view this import as unresolved.
    resolved = false;

    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == WSDLPackage.Literals.IMPORT__NAMESPACE_URI)
            niceSetAttribute(theElement, WSDLConstants.NAMESPACE_ATTRIBUTE, getNamespaceURI());

        if (eAttribute == null || eAttribute == WSDLPackage.Literals.IMPORT__LOCATION_URI)
            niceSetAttribute(theElement, WSDLConstants.LOCATION_ATTRIBUTE, getLocationURI());
    }
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.IMPORT);
    setElement(newElement);
    return newElement;
}

public void importDefinitionOrSchema()
{
    resolve(getNamespaceURI(), getLocationURI());
}

protected void resolve(String namespace, String location)

```

```

{
if (!resolved)
{
// KB: bugzilla 118293
// If a user changes <wsdl:import> from a WSDL file to an XML Schema file
// or the other way around, we should set the variable for the first
// <wsdl:import> source to null. Here I am simply setting both variables to null,
// which will have the same effect.
eDefinition = null;
eSchema = null;

Definition definition = getEnclosingDefinition();
if (definition != null && definition.getDocumentBaseURI() != null)
{
Resource resource = definition.eResource();
if (resource != null)
{
ResourceSet resourceSet = resource.getResourceSet();
if (resourceSet != null)
{
if (namespace == null)
{
namespace = definition.getTargetNamespace();
}

String resolvedLocation = resolveLocation(definition, namespace, location);

if (resolvedLocation == null)
{
return;
}

URI uri = URI.createURI(resolvedLocation);
Resource resolvedResource = resourceSet.getResource(uri, false);
if (resolvedResource == null)
{
try
{
InputStream inputStream = resourceSet.getURICConverter().createInputStream(uri);
resolvedResource = getResource(uri, resourceSet);
resolvedResource.load(inputStream, resourceSet.getLoadOptions());
}
catch (IOException exception)
{
// It is generally not an error to fail to resolve.
// If a resource is actually created,
// which happens only when we can create an input stream,
// then it's an error if it's not a good wsdl or schema

```

```

    }
    }

    if (resolvedResource != null)
    {
        if (resolvedResource instanceof WSDLResourceImpl)
        {
            eDefinition = ((WSDLResourceImpl)resolvedResource).getDefinition();
        }
        else if (resolvedResource instanceof XSDResourceImpl)
        {
            eSchema = ((XSDResourceImpl)resolvedResource).getSchema();
        }
        else
        {
            eDefinition = WSDLFactory.eINSTANCE.createDefinition();
        }
    }
    resolved = true;
}
}
}
}

protected String resolveLocation(Definition definition, String namespace, String schemaLocation)
{
    String result = null;
    WSDLModelLocator locator = (WSDLModelLocator)EcoreUtil.getRegisteredAdapter(definition.eResource(),
WSDLModelLocator.class);
    if (locator != null)
    {
        result = locator.resolveURI(definition.getDocumentBaseURI(), namespace, schemaLocation);
    }
    else
    {
        // TODO... there's some default resolving we'll need to do here
        // see XSDSchemaDirective
        URI baseLocationURI = createURI(definition.getDocumentBaseURI());
        URI locationURI = URI.createURI(schemaLocation);
        return locationURI.resolve(baseLocationURI).toString();
    }
    return result;
}

//TODO... push down to EMF
private static URI createURI(String uriString)
{

```

```

    if (hasProtocol(uriString))
        return URI.createURI(uriString);
    else
        return URI.createFileURI(uriString);
}

//TODO... push down to EMF
private static boolean hasProtocol(String uri)
{
    boolean result = false;
    if (uri != null)
    {
        int index = uri.indexOf(":");
        if (index != -1 && index > 2) // assume protocol with be length 3 so that the 'C' in 'C:/' is not interpreted as a
protocol
        {
            result = true;
        }
    }
    return result;
}

private static String getRootElementName(String uri)
{
    RootElementNameContentHandler handler = new RootElementNameContentHandler();
    try
    {
        XMLReader reader = XMLReaderFactory.createXMLReader();
        reader.setContentHandler(handler);
        reader.parse(uri);
    }
    catch (Exception e)
    {
        // Explicitly ignore any exceptions.
    }

    return handler.rootElementName;
}

private static class RootElementNameContentHandler extends DefaultHandler
{
    public String rootElementName;

    public void startElement(String uri, String localName, String qName, Attributes attributes) throws SAXException
    {
        rootElementName = localName;

        // Throw an exception to make the SAX Parser to stop parsing

```

```

        throw new SAXException("SAXParser intentionally stopped"); //$NON-NLS-1$
    }
}

private static final URI XSD_URI = URI.createURI("*.xsd"); //$NON-NLS-1$
private static final URI WSDL_URI = URI.createURI("*.wsdl"); //$NON-NLS-1$

private static Resource getResource(URI uri, ResourceSet resourceSet)
{
    // Allow the resource set the first chance to create the resource based on
    // the registered resource factories.

    Resource resource = resourceSet.createResource(uri);

    boolean isWsdOrXsdResource = resource instanceof WSDLResourceImpl || resource instanceof
XSDResourceImpl;

    if (!isWsdOrXsdResource)
    {
        // The URI was not mapped to a WSDL or XSD resource.
        // Try to peek inside the resource to determine if its an XSD or WSDL document.

        String rootElementName = getRootElementName(uri.toString());

        if (rootElementName != null)
        {
            URI resourceURI = null;

            if (XSDConstants.SCHEMA_ELEMENT_TAG.equals(rootElementName))
            {
                resourceURI = XSD_URI;
            }
            else if (WSDLConstants.DEFINITION_ELEMENT_TAG.equals(rootElementName))
            {
                resourceURI = WSDL_URI;
            }

            if (resourceURI != null)
            {
                resource = resourceSet.createResource(resourceURI);
                resource.setURI(uri);
            }
        }
    }
    return resource;
}
} //ImportImpl

```

```

/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

```

```

import java.util.Collection;
import java.util.Iterator;

```

```

import org.eclipse.emf.common.notify.NotificationChain;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.util.EObjectContainmentEList;
import org.eclipse.emf.ecore.util.InternalEList;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.UnknownExtensibilityElement;
import org.eclipse.wst.wsdl.WSDLFactory;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.w3c.dom.Document;
import org.w3c.dom.Element;

```

```

/**
* <!-- begin-user-doc -->
* An implementation of the model object '<em><b>Unknown Extensibility Element</b></em>'.
* <!-- end-user-doc -->
* <p>
* The following features are implemented:
* <ul>
* <li>{@link org.eclipse.wst.wsdl.internal.impl.UnknownExtensibilityElementImpl#getChildren
<em>Children</em>}</li>
* </ul>
* </p>
*
* @generated
*/

```

```

public class UnknownExtensibilityElementImpl extends ExtensibilityElementImpl implements
UnknownExtensibilityElement
{

```



```

/**
 * The cached value of the '{@link #getChildren() <em>Children</em>}' containment reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getChildren()
 * @generated
 * @ordered
 */
protected EList children;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected UnknownExtensibilityElementImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.UNKNOWN_EXTENSIBILITY_ELEMENT;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getChildren()
{
    if (children == null)
    {
        children = new EObjectContainmentEList(UnknownExtensibilityElement.class, this,
WSDLPackage.UNKNOWN_EXTENSIBILITY_ELEMENT__CHILDREN);
    }
    return children;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated
*/
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case WSDLPackage.UNKNOWN_EXTENSIBILITY_ELEMENT__CHILDREN:
            return ((InternalEList)getChildren()).basicRemove(otherEnd, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.UNKNOWN_EXTENSIBILITY_ELEMENT__CHILDREN:
            return getChildren();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.UNKNOWN_EXTENSIBILITY_ELEMENT__CHILDREN:
            getChildren().clear();
            getChildren().addAll((Collection)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.UNKNOWN_EXTENSIBILITY_ELEMENT__CHILDREN:
            getChildren().clear();
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.UNKNOWN_EXTENSIBILITY_ELEMENT__CHILDREN:
            return children != null && !children.isEmpty();
    }
    return super.eIsSet(featureID);
}

//
// Reconcile methods
//

public void setElement(Element element)
{
    if (element == null && !isReconciling)
    {
        //System.out.println("ExtensibilityElement.setElement(): Preserving old element");
    }
    else
    {
        {
            setElementGen(element);
        }
    }
}

public void reconcileAttributes(Element changedElement)
{
    //System.out.println("UnknownExtensibilityElementImpl.reconcileAttributes()");
}

```

```

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    //System.out.println("UnknownExtensibilityElementImpl.handleUnreconciledElement()");
    UnknownExtensibilityElement extensibilityElement =
WSDLFactory.eINSTANCE.createUnknownExtensibilityElement();
    extensibilityElement.setEnclosingDefinition(getEnclosingDefinition());
    extensibilityElement.setElement(child);

    // TODO.. we need to figure out where the child should go in the in current list
    // so that it doesn't always end up going to the end of the list
    // (since a new element might be added at the start)
    getChildren().add(extensibilityElement);
}

```

```

protected void handleReconciliation(Collection remainingModelObjects)
{
    for (Iterator i = remainingModelObjects.iterator(); i.hasNext();)
    {
        remove(this, i.next());
    }
}

```

```

protected void remove(Object component, Object modelObject)
{
    UnknownExtensibilityElement uee = (UnknownExtensibilityElement)component;
    if (modelObject instanceof UnknownExtensibilityElement)
    {
        uee.getChildren().remove(modelObject);
    }
}

```

```

public Element createElement()
{
    Definition definition = getEnclosingDefinition();
    if (definition == null)
        return null;

    Document document = definition.getDocument();
    if (document == null)
        document = ((DefinitionImpl)definition).updateDocument();

    Element newElement = null;
    if (element != null) // This is an old element.
    {
        newElement = (Element)document.importNode(element, true);
        element = newElement;
    }
    else

```

```

    {
        String namespace = getElementType().getNamespaceURI();
        String qualifier = definition.getPrefix(namespace);
        newElement = document.createElementNS(namespace, (qualifier == null ? "" : qualifier + ":") +
getElementType().getLocalPart());
        element = newElement;
    }

    return newElement;
}

private java.util.Map properties = new java.util.HashMap();

public void setAttribute(String key, String value)
{
    properties.put(key, value);
}

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        Iterator iterator = properties.entrySet().iterator();
        java.util.Map.Entry entry = null;
        while (iterator.hasNext())
        {
            entry = (java.util.Map.Entry)iterator.next();
            String attribute = (String)entry.getKey();
            String value = (String)entry.getValue();
            niceSetAttribute(theElement, attribute, value);
        }
    }
}
} //UnknownExtensibilityElementImpl
/*****
* Copyright (c) 2001, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation

```

```
*****/
```

```
package org.eclipse.wst.wsdl.internal.impl;
```

```
import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.emf.ecore.impl.EObjectImpl;
import org.eclipse.wst.wsdl.Namespace;
import org.eclipse.wst.wsdl.WSDLPackage;
```

```
/**
```

```
 * <!-- begin-user-doc -->
```

```
 * An implementation of the model object '<em><b>Namespace</b></em>'.
```

```
 * <!-- end-user-doc -->
```

```
 * <p>
```

```
 * The following features are implemented:
```

```
 * <ul>
```

```
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.NamespaceImpl#getURI <em>URI</em> }</li>
```

```
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.NamespaceImpl#getPrefix <em>Prefix</em> }</li>
```

```
 * </ul>
```

```
 * </p>
```

```
 *
```

```
 * @generated
```

```
 */
```

```
public class NamespaceImpl extends EObjectImpl implements Namespace
```

```
{
```

```
 /**
```

```
 * The default value of the '{ @link #getURI() <em>URI</em> }' attribute.
```

```
 * <!-- begin-user-doc -->
```

```
 * <!-- end-user-doc -->
```

```
 * @see #getURI()
```

```
 * @generated
```

```
 * @ordered
```

```
 */
```

```
protected static final String URI_EDEFAULT = null;
```

```
 /**
```

```
 * The cached value of the '{ @link #getURI() <em>URI</em> }' attribute.
```

```
 * <!-- begin-user-doc -->
```

```
 * <!-- end-user-doc -->
```

```
 * @see #getURI()
```

```
 * @generated
```

```
 * @ordered
```

```
 */
```

```
protected String uri = URI_EDEFAULT;
```

```

/**
 * The default value of the '{@link #getPrefix() <em>Prefix</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getPrefix()
 * @generated
 * @ordered
 */
protected static final String PREFIX_EDEFAULT = null;

/**
 * The cached value of the '{@link #getPrefix() <em>Prefix</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getPrefix()
 * @generated
 * @ordered
 */
protected String prefix = PREFIX_EDEFAULT;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected NamespaceImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.NAMESPACE;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getURI()
{
    return uri;
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setURI(String newURI)
{
    String oldURI = uri;
    uri = newURI;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.NAMESPACE__URI, oldURI, uri));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getPrefix()
{
    return prefix;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setPrefix(String newPrefix)
{
    String oldPrefix = prefix;
    prefix = newPrefix;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.NAMESPACE__PREFIX, oldPrefix,
prefix));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {

```



```

    case WSDLPackage.NAMESPACE__URI:
    return getURI();
    case WSDLPackage.NAMESPACE__PREFIX:
    return getPrefix();
}
return super.eGet(featureID, resolve, coreType);
}

```

```
/**
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @generated
```

```
*/
```

```
public void eSet(int featureID, Object newValue)
```

```
{
```

```
    switch (featureID)
```

```
    {
```

```
        case WSDLPackage.NAMESPACE__URI:
```

```
        setURI((String)newValue);
```

```
        return;
```

```
        case WSDLPackage.NAMESPACE__PREFIX:
```

```
        setPrefix((String)newValue);
```

```
        return;
```

```
    }
```

```
    super.eSet(featureID, newValue);
```

```
}
```

```
/**
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @generated
```

```
*/
```

```
public void eUnset(int featureID)
```

```
{
```

```
    switch (featureID)
```

```
    {
```

```
        case WSDLPackage.NAMESPACE__URI:
```

```
        setURI(URI_EDEFAULT);
```

```
        return;
```

```
        case WSDLPackage.NAMESPACE__PREFIX:
```

```
        setPrefix(PREFIX_EDEFAULT);
```

```
        return;
```

```
    }
```

```
    super.eUnset(featureID);
```

```
}
```

```
/**
```

```
* <!-- begin-user-doc -->
```

```

* <!-- end-user-doc -->
* @generated
*/
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.NAMESPACE__URI:
            return URI_EDEFAULT == null ? uri != null : !URI_EDEFAULT.equals(uri);
        case WSDLPackage.NAMESPACE__PREFIX:
            return PREFIX_EDEFAULT == null ? prefix != null : !PREFIX_EDEFAULT.equals(prefix);
    }
    return super.eIsSet(featureID);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (URI: "); //$NON-NLS-1$
    result.append(uri);
    result.append(", prefix: "); //$NON-NLS-1$
    result.append(prefix);
    result.append(')');
    return result.toString();
}

} //NamespaceImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsd.internal.impl;

```

```

import java.util.ArrayList;
import java.util.Collection;
import java.util.Iterator;
import java.util.List;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsdl.BindingOperation;
import org.eclipse.wst.wsdl.BindingOutput;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.Operation;
import org.eclipse.wst.wsdl.Output;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Binding Output</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{@link org.eclipse.wst.wsdl.internal.impl.BindingOutputImpl#getName <em>Name</em>}</li>
 * <li>{@link org.eclipse.wst.wsdl.internal.impl.BindingOutputImpl#getEOutput <em>EOutput</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class BindingOutputImpl extends ExtensibleElementImpl implements BindingOutput
{
    /**
     * This class is not intended to be serialized.
     * serialVersionUID is assigned with 1L to avoid
     * compiler warning messages.
     */
    private static final long serialVersionUID = 1L;

    /**
     * The default value of the '{@link #getName() <em>Name</em>}' attribute.
     * <!-- begin-user-doc -->
     * <!-- end-user-doc -->
     * @see #getName()

```

```

* @generated
* @ordered
*/
protected static final String NAME_EDEFAULT = null;

/**
 * The cached value of the '{@link #getName() <em>Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getName()
 * @generated
 * @ordered
 */
protected String name = NAME_EDEFAULT;

/**
 * The cached value of the '{@link #getEOutput() <em>EOutput</em>}' reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEOutput()
 * @generated
 * @ordered
 */
protected Output eOutput;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected BindingOutputImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.BINDING_OUTPUT;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated
*/
public String getName()
{
    return name;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setName(String newName)
{
    String oldName = name;
    name = newName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.BINDING_OUTPUT__NAME,
oldName, name));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Output getEOutput()
{
    if (eOutput != null && eOutput.eIsProxy())
    {
        InternalEObject oldEOutput = (InternalEObject)eOutput;
        eOutput = (Output)eResolveProxy(oldEOutput);
        if (eOutput != oldEOutput)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE,
WSDLPackage.BINDING_OUTPUT__EOUTPUT, oldEOutput, eOutput));
        }
    }
    return eOutput;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Output basicGetEOutput()

```

```

    {
        return eOutput;
    }

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEOutput(Output newEOutput)
{
    Output oldEOutput = eOutput;
    eOutput = newEOutput;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.BINDING_OUTPUT__EOUTPUT,
oldEOutput, eOutput));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Output getOutput()
{
    return getEOutput();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setOutput(javax.wsdl.Output output)
{
    setEOutput((Output)output);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_OUTPUT__NAME:

```

```

return getName();
case WSDLPackage.BINDING_OUTPUT__EOUTPUT:
if (resolve)
return getEOutput();
return basicGetEOutput();
}
return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
switch (featureID)
{
case WSDLPackage.BINDING_OUTPUT__NAME:
setName((String)newValue);
return;
case WSDLPackage.BINDING_OUTPUT__EOUTPUT:
setEOutput((Output)newValue);
return;
}
super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
switch (featureID)
{
case WSDLPackage.BINDING_OUTPUT__NAME:
setName(NAME_EDEFAULT);
return;
case WSDLPackage.BINDING_OUTPUT__EOUTPUT:
setEOutput((Output)null);
return;
}
super.eUnset(featureID);
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_OUTPUT__NAME:
            return NAME_EDEFAULT == null ? name != null : !NAME_EDEFAULT.equals(name);
        case WSDLPackage.BINDING_OUTPUT__EOUTPUT:
            return eOutput != null;
    }
    return super.eIsSet(featureID);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (name: "); //$NON-NLS-1$
    result.append(name);
    result.append(')');
    return result.toString();
}

//
// Reconcile methods
//

public void reconcileAttributes(Element changedElement)
{
    {
        if (changedElement.hasAttribute("name"))
        {
            {
                String name = changedElement.getAttribute("name");
                if (name != null)
                {
                    {
                        setName(name);
                    }
                }
            }
        }
    }
}

```



```

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    super.handleUnreconciledElement(child, remainingModelObjects);
}

public Collection getModelObjects(Object component)
{
    BindingOutput bindingOutput = (BindingOutput)component;
    List list = new ArrayList();
    list.addAll(bindingOutput.getEExtensibilityElements());
    return list;
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == WSDLPackage.Literals.BINDING_OUTPUT__NAME)
            niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getName());
    }
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.OUTPUT);
    setElement(newElement);

    Iterator iterator = getExtensibilityElements().iterator();
    while (iterator.hasNext())
    {
        ExtensibilityElement extensibilityElement = (ExtensibilityElement)iterator.next();
        Element child = ((ExtensibilityElementImpl)extensibilityElement).createElement();
        newElement.appendChild(child);
    }

    return newElement;
}

```

```

// Resolve the reference to Output
public void reconcileReferences(boolean deep)
{
    if (element != null)
    {
        BindingOperation bop = (BindingOperation)getContainer();
        Operation op = bop.getEOperation();
        if (op != null)
        {
            setOutput(op.getEOutput());
        }
    }
    super.reconcileReferences(deep);
}
} //BindingOutputImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

import java.util.ArrayList;
import java.util.Collection;
import java.util.Iterator;
import java.util.List;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EReference;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsdl.Binding;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.Port;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

```

```

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Port</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.PortImpl#getName <em>Name</em>}</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.PortImpl#getEBinding <em>EBinding</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public class PortImpl extends ExtensibleElementImpl implements Port
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The default value of the '{ @link #getName() <em>Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getName()
 * @generated
 * @ordered
 */
protected static final String NAME_EDEFAULT = null;

/**
 * The cached value of the '{ @link #getName() <em>Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getName()
 * @generated
 * @ordered
 */
protected String name = NAME_EDEFAULT;

/**
 * The cached value of the '{ @link #getEBinding() <em>EBinding</em>}' reference.
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @see #getEBinding()
* @generated
* @ordered
*/
protected Binding eBinding;

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected PortImpl()
{
    super();
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.PORT;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String getName()
{
    return name;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setName(String newName)
{
    String oldName = name;
    name = newName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.PORT__NAME, oldName, name));
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Binding getEBinding()
{
    if (eBinding != null && eBinding.eIsProxy())
    {
        InternalEObject oldEBinding = (InternalEObject)eBinding;
        eBinding = (Binding)eResolveProxy(oldEBinding);
        if (eBinding != oldEBinding)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE, WSDLPackage.PORT__EBINDING,
oldEBinding, eBinding));
        }
    }
    return eBinding;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Binding basicGetEBinding()
{
    return eBinding;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEBinding(Binding newEBinding)
{
    Binding oldEBinding = eBinding;
    eBinding = newEBinding;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.PORT__EBINDING, oldEBinding,
eBinding));
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated NOT
*/
public javax.wsdl.Binding getBinding()
{
    return getEBinding();
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated NOT
*/
public void setBinding(javax.wsdl.Binding binding)
{
    setEBinding((Binding)binding);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.PORT__NAME:
            return getName();
        case WSDLPackage.PORT__EBINDING:
            if (resolve)
                return getEBinding();
            return basicGetEBinding();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.PORT__NAME:

```

```

        setName((String)newValue);
    return;
    case WSDLPackage.PORT__EBINDING:
        setEBinding((Binding)newValue);
    return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.PORT__NAME:
            setName(NAME_EDEFAULT);
            return;
        case WSDLPackage.PORT__EBINDING:
            setEBinding((Binding)null);
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.PORT__NAME:
            return NAME_EDEFAULT == null ? name != null : !NAME_EDEFAULT.equals(name);
        case WSDLPackage.PORT__EBINDING:
            return eBinding != null;
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated
*/
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (name: "); //$NON-NLS-1$
    result.append(name);
    result.append(')');
    return result.toString();
}

//
// Reconcile methods
//

public void reconcileAttributes(Element changedElement)
{
    setName(changedElement.getAttribute("name"));
    reconcileReferences(false);
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    super.handleUnreconciledElement(child, remainingModelObjects);
}

public Collection getModelObjects(Object component)
{
    Port port = (Port)component;
    List list = new ArrayList();
    list.addAll(port.getEExtensibilityElements());
    return list;
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();

```



```

if (theElement != null)
{
    if (eAttribute == null || eAttribute == WSDLPackage.Literals.PORT__NAME)
        niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getName());
}
}

protected void changeReference(EReference eReference)
{
    if (isReconciling)
        return;

    super.changeReference(eReference);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eReference == null || eReference == WSDLPackage.Literals.PORT__EBINDING)
        {
            Binding binding = getEBinding();
            if (binding != null)
            {
                QName qName = binding.getQName();
                niceSetAttributeURIValue(theElement, WSDLConstants.BINDING_ATTRIBUTE,
qName.getNamespaceURI() + "#" + qName.getLocalPart());
            }
        }
    }
}

protected Element createElement()
{
    Element newElement = createElement(WSDLConstants.PORT);
    setElement(newElement);

    Iterator iterator = getExtensibilityElements().iterator();
    while (iterator.hasNext())
    {
        ExtensibilityElement extensibilityElement = (ExtensibilityElement)iterator.next();
        Element child = ((ExtensibilityElementImpl)extensibilityElement).createElement();
        newElement.appendChild(child);
    }
    return newElement;
}

public void reconcileReferences(boolean deep)
{
    if (element != null)
    {

```

```

    Definition definition = getEnclosingDefinition();
    QName bindingQName = createQName(definition,
element.getAttribute(WSDLConstants.BINDING_ATTRIBUTE), element);
    Binding newBinding = (bindingQName != null) ? (Binding)definition.getBinding(bindingQName) : null;
    if (newBinding != getEBinding())
    {
        setEBinding(newBinding);
    }
}
super.reconcileReferences(deep);
}

```

```

} //PortImpl

```

```

/*****

```

```

* Copyright (c) 2001, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*

```

```

* Contributors:

```

```

* IBM Corporation - initial API and implementation

```

```

*****/

```

```

package org.eclipse.wst.wsdl.internal.impl;

```

```

import javax.wsdl.Message;

```

```

import org.eclipse.emf.ecore.EClass;

```

```

import org.eclipse.wst.wsdl.Output;

```

```

import org.eclipse.wst.wsdl.WSDLPackage;

```

```

import org.eclipse.wst.wsdl.util.WSDLConstants;

```

```

import org.w3c.dom.Element;

```

```

/**

```

```

* <!-- begin-user-doc -->

```

```

* An implementation of the model object '<em><b>Output</b></em>'.

```

```

* <!-- end-user-doc -->

```

```

* <p>

```

```

* </p>

```

```

*

```

```

* @generated

```

```

*/

```

```

public class OutputImpl extends MessageReferenceImpl implements Output

```

```

{

```

```

/**

```

```

* This class is not intended to be serialized.

```

```

* serialVersionUID is assigned with 1L to avoid
* compiler warning messages.
*/
private static final long serialVersionUID = 1L;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected OutputImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.OUTPUT;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Message getMessage()
{
    return getEMessage();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setMessage(Message message)
{
    setEMessage((org.eclipse.wst.wsdl.Message)message);
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.OUTPUT);
}

```

```

    setElement(newElement);
    return newElement;
}
} //OutputImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

```

```

import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;

```

```

import javax.wsdl.BindingFault;
import javax.wsdl.BindingInput;
import javax.wsdl.BindingOperation;
import javax.wsdl.BindingOutput;
import javax.wsdl.Fault;
import javax.wsdl.Input;
import javax.wsdl.Operation;
import javax.wsdl.Output;
import javax.wsdl.Part;
import javax.wsdl.Port;
import javax.wsdl.extensions.ExtensionRegistry;
import javax.xml.namespace.QName;
import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.ParserConfigurationException;

```

```

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.common.notify.NotificationChain;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EReference;
import org.eclipse.emf.ecore.InternalEObject;

```

```

import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.emf.ecore.resource.Resource;
import org.eclipse.emf.ecore.resource.ResourceSet;
import org.eclipse.emf.ecore.resource.impl.ResourceSetImpl;
import org.eclipse.emf.ecore.util.EObjectContainmentEList;
import org.eclipse.emf.ecore.util.InternalEList;
import org.eclipse.wst.wsdl.Binding;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.Import;
import org.eclipse.wst.wsdl.Message;
import org.eclipse.wst.wsdl.Namespace;
import org.eclipse.wst.wsdl.PortType;
import org.eclipse.wst.wsdl.Service;
import org.eclipse.wst.wsdl.Types;
import org.eclipse.wst.wsdl.WSDLElement;
import org.eclipse.wst.wsdl.WSDLFactory;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.WSDLPlugin;
import org.eclipse.wst.wsdl.XSDSchemaExtensibilityElement;
import org.eclipse.wst.wsdl.internal.util.WSDLResourceFactoryImpl;
import org.eclipse.wst.wsdl.internal.util.WSDLUtil;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.eclipse.wst.wsdl.util.WSDLResourceImpl;
import org.eclipse.xsd.XSDConcreteComponent;
import org.eclipse.xsd.XSDElementDeclaration;
import org.eclipse.xsd.XSDImport;
import org.eclipse.xsd.XSDSchema;
import org.eclipse.xsd.XSDTypeDefinition;
import org.eclipse.xsd.impl.XSDImportImpl;
import org.eclipse.xsd.impl.XSDSchemaImpl;
import org.eclipse.xsd.util.XSDConstants;
import org.w3c.dom.Attr;
import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.w3c.dom.NamedNodeMap;
import org.w3c.dom.Node;
import org.w3c.dom.events.Event;
import org.w3c.dom.events.EventListener;
import org.w3c.dom.events.EventTarget;
import org.w3c.dom.events.MutationEvent;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Definition</b></em>'.
 * <!-- end-user-doc -->
 * <p>

```

```

* The following features are implemented:
* <ul>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.DefinitionImpl#getTargetNamespace <em>Target
Namespace</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.DefinitionImpl#getLocation <em>Location</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.DefinitionImpl#getQName <em>QName</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.DefinitionImpl#getEncoding <em>Encoding</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.DefinitionImpl#getEImports <em>EImports</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.DefinitionImpl#getETypes <em>ETypes</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.DefinitionImpl#getEMessages <em>EMessages</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.DefinitionImpl#getEPortTypes <em>EPort Types</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.DefinitionImpl#getEBindings <em>EBindings</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.DefinitionImpl#getEServices <em>EServices</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.DefinitionImpl#getENamespaces <em>ENamespaces</em>}</li>
* </ul>
* </p>
*
* @generated
*/
public class DefinitionImpl extends ExtensibleElementImpl implements Definition
{
private static final String XMLNS = "xmlns"; //$NON-NLS-1$

/**
* This class is not intended to be serialized.
* serialVersionUID is assigned with 1L to avoid
* compiler warning messages.
*/
private static final long serialVersionUID = 1L;

/**
* The default value of the '{ @link #getTargetNamespace() <em>Target Namespace</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getTargetNamespace()
* @generated
* @ordered
*/
protected static final String TARGET_NAMESPACE_EDEFAULT = null;

/**
* The cached value of the '{ @link #getTargetNamespace() <em>Target Namespace</em>}' attribute.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getTargetNamespace()
* @generated
* @ordered
*/

```

```

protected String targetNamespace = TARGET_NAMESPACE_EDEFAULT;

/**
 * The default value of the '{@link #getLocation() <em>Location</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getLocation()
 * @generated
 * @ordered
 */
protected static final String LOCATION_EDEFAULT = null;

/**
 * The cached value of the '{@link #getLocation() <em>Location</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getLocation()
 * @generated
 * @ordered
 */
protected String location = LOCATION_EDEFAULT;

/**
 * The default value of the '{@link #getQName() <em>QName</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getQName()
 * @generated
 * @ordered
 */
protected static final QName QNAME_EDEFAULT = null;

/**
 * The cached value of the '{@link #getQName() <em>QName</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getQName()
 * @generated
 * @ordered
 */
protected QName qName = QNAME_EDEFAULT;

/**
 * The default value of the '{@link #getEncoding() <em>Encoding</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEncoding()
 * @generated

```

```

* @ordered
*/
protected static final String ENCODING_EDEFAULT = null;

/**
 * The cached value of the '{@link #getEncoding() <em>Encoding</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEncoding()
 * @generated
 * @ordered
 */
protected String encoding = ENCODING_EDEFAULT;

/**
 * The cached value of the '{@link #getEImports() <em>EImports</em>}' containment reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEImports()
 * @generated
 * @ordered
 */
protected EList eImports;

/**
 * The cached value of the '{@link #getETypes() <em>ETypes</em>}' containment reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getETypes()
 * @generated
 * @ordered
 */
protected Types eTypes;

/**
 * The cached value of the '{@link #getEMessages() <em>EMessages</em>}' containment reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEMessages()
 * @generated
 * @ordered
 */
protected EList eMessages;

/**
 * The cached value of the '{@link #getEPortTypes() <em>EPort Types</em>}' containment reference list.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```



```

* @see #getEPortTypes()
* @generated
* @ordered
*/
protected EList ePortTypes;

/**
* The cached value of the '{@link #getEBindings() <em>EBindings</em>}' containment reference list.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getEBindings()
* @generated
* @ordered
*/
protected EList eBindings;

/**
* The cached value of the '{@link #getEServices() <em>EServices</em>}' containment reference list.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getEServices()
* @generated
* @ordered
*/
protected EList eServices;

/**
* The cached value of the '{@link #getENamespaces() <em>ENamespaces</em>}' containment reference list.
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @see #getENamespaces()
* @generated
* @ordered
*/
protected EList eNamespaces;

private ExtensionRegistry extensionRegistry;

private Document document;

private HashMap namespaces = new HashMap();

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected DefinitionImpl()

```

```

{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.DEFINITION;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getTargetNamespace()
{
    return targetNamespace;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setTargetNamespace(String newTargetNamespace)
{
    String oldTargetNamespace = targetNamespace;
    targetNamespace = newTargetNamespace;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET,
WSDLPackage.DEFINITION__TARGET_NAMESPACE, oldTargetNamespace, targetNamespace));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getLocation()
{
    return location;
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setLocation(String newLocation)
{
    String oldLocation = location;
    location = newLocation;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.DEFINITION__LOCATION,
oldLocation, location));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public QName getQName()
{
    return qName;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setQName(QName newQName)
{
    QName oldQName = qName;
    qName = newQName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.DEFINITION__QNAME, oldQName,
qName));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getEncoding()
{
    return encoding;
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEncoding(String newEncoding)
{
    String oldEncoding = encoding;
    encoding = newEncoding;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.DEFINITION__ENCODING,
oldEncoding, encoding));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEMessages()
{
    if (eMessages == null)
    {
        eMessages = new EObjectContainmentEList(Message.class, this,
WSDLPackage.DEFINITION__EMESSAGES);
    }
    return eMessages;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEPortTypes()
{
    if (ePortTypes == null)
    {
        ePortTypes = new EObjectContainmentEList(PortType.class, this,
WSDLPackage.DEFINITION__EPORT_TYPES);
    }
    return ePortTypes;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated

```

```

*/
public EList getEBindings()
{
    if (eBindings == null)
    {
        eBindings = new EObjectContainmentEList(Binding.class, this, WSDLPackage.DEFINITION__EBINDINGS);
    }
    return eBindings;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEServices()
{
    if (eServices == null)
    {
        eServices = new EObjectContainmentEList(Service.class, this, WSDLPackage.DEFINITION__ESERVICES);
    }
    return eServices;
}

/**
 * <!-- begin-user-doc -->
 * @deprecated
 * <!-- end-user-doc -->
 * @generated
 */
public EList getENamespaces()
{
    if (eNamespaces == null)
    {
        eNamespaces = new EObjectContainmentEList(Namespace.class, this,
WSDLPackage.DEFINITION__ENAMESPACES);
    }
    return eNamespaces;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Types getETypes()
{
    return eTypes;
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain basicSetETypes(Types newETypes, NotificationChain msgs)
{
    Types oldETypes = eTypes;
    eTypes = newETypes;
    if (eNotificationRequired())
    {
        ENotificationImpl notification = new ENotificationImpl(this, Notification.SET,
WSDLPackage.DEFINITION__ETYPES, oldETypes, newETypes);
        if (msgs == null)
            msgs = notification;
        else
            msgs.add(notification);
    }
    return msgs;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setETypes(Types newETypes)
{
    if (newETypes != eTypes)
    {
        NotificationChain msgs = null;
        if (eTypes != null)
            msgs = ((InternalEObject)eTypes).eInverseRemove(this, EOPPOSITE_FEATURE_BASE -
WSDLPackage.DEFINITION__ETYPES, null, msgs);
        if (newETypes != null)
            msgs = ((InternalEObject)newETypes).eInverseAdd(this, EOPPOSITE_FEATURE_BASE -
WSDLPackage.DEFINITION__ETYPES, null, msgs);
        msgs = basicSetETypes(newETypes, msgs);
        if (msgs != null)
            msgs.dispatch();
    }
    else if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.DEFINITION__ETYPES, newETypes,
newETypes));
}

```

```

public void eNotify(Notification msg)
{
    super.eNotify(msg);

    // cs.. if we've added a Types element, and this definition is already attached to a resource
    // we need to set the schemaLocations for any inline schemaLocations.
    // If not yet attached to a resource, the schemaLocation's will be set via WSDLResourceImpl.attached(EObject o)
    //
    if (msg.getFeature() == WSDLPackage.Literals.DEFINITION__ETYPES && msg.getEventType() ==
Notification.SET)
    {
        if (eResource() instanceof WSDLResourceImpl && getEnclosingDefinition() != null)
        {
            setInlineSchemaLocations(eResource());
        }
    }
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public EList getEImports()
{
    if (eImports == null)
    {
        eImports = new EObjectContainmentEList(Import.class, this, WSDLPackage.DEFINITION__EIMPORTS);
    }
    return eImports;
}

/**
 * <!-- begin-user-doc -->
 * Add a binding to this WSDL description.
 * @param binding the binding to be added
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addBinding(javax.wsdl.Binding binding)
{
    getEBindings().add((Binding)binding);
}

/**
 * <!-- begin-user-doc -->
 * Add an import to this WSDL description.
 * @param importDef the import to be added

```

```

* <!-- end-user-doc -->
* @generated NOT
*/
public void addImport(javax.wsdl.Import importDef)
{
    getEImports().add((Import)importDef);
}

/**
* <!-- begin-user-doc -->
* Add a message to this WSDL description.
* @param message the message to be added
* <!-- end-user-doc -->
* @generated NOT
*/
public void addMessage(javax.wsdl.Message message)
{
    getEMessages().add((Message)message);
}

/**
* <!-- begin-user-doc -->
* This is a way to add a namespace association to a definition.
* It is similar to adding a namespace prefix declaration to the
* top of a <wSDL:definition> element. This has nothing to do
* with the <wSDL:import> element; there are separate methods for
* dealing with information described by <wSDL:import> elements.
* There is a default namespace association (which can be
* overridden) between the null prefix and
* http://schemas.xmlsoap.org/wSDL/.
* @param prefix the prefix to use for this namespace (when
* rendering this information as XML). Use null or an empty string
* to describe the default namespace (i.e. xmlns="...").
* @param namespaceURI the namespace URI to associate the prefix
* with. If you use null, the namespace association will be removed.
* <!-- end-user-doc -->
* @generated NOT
*/
public void addNamespace(String prefix, String namespaceURI)
{
    if (prefix == null)
        prefix = "";

    if (namespaceURI != null)
    {
        // First, check if there is this namespace already.
        String existingPrefix = getPrefix(namespaceURI);
        if (existingPrefix != null)

```



```

return;

// Make sure the prefix is not already used for a different namespace
Map namespaces = getNamespaces();
String existingNamespace = (String)namespaces.get(prefix);
if (existingNamespace == null)
{
    namespaces.put(prefix, namespaceURI);

    // Support for Namespace
    Namespace ens = WSDLFactory.eINSTANCE.createNamespace();
    ens.setPrefix(prefix);
    ens.setURI(namespaceURI);
    getENamespaces().add(ens);

    return;
}

// The prefix is taken already. Make a unique prefix
if (prefix.endsWith("1"))
    prefix = prefix.substring(0, prefix.length() - 1);

for (int i = 2;; i++)
{
    String newPrefix = prefix + i;
    if (!namespaces.containsKey(newPrefix))
    {
        namespaces.put(newPrefix, namespaceURI);

        // Support for Namespace
        Namespace ens = WSDLFactory.eINSTANCE.createNamespace();
        ens.setPrefix(prefix);
        ens.setURI(namespaceURI);
        getENamespaces().add(ens);

        return;
    }
} // end if (namespaceURI != null)
else
{
    getNamespaces().remove(prefix);

    // Support for Namespace
    getENamespaces().remove(prefix);
}
}

```

```

/**
 * <!-- begin-user-doc -->
 * Add a portType to this WSDL description.
 * @param portType the portType to be added
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addPortType(javax.wsdl.PortType portType)
{
    getEPortTypes().add((PortType)portType);
}

/**
 * <!-- begin-user-doc -->
 * Add a service to this WSDL description.
 * @param service the service to be added
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addService(javax.wsdl.Service service)
{
    getEServices().add((Service)service);
}

/**
 * <!-- begin-user-doc -->
 * Create a new binding fault.
 * @return the newly created binding fault
 * <!-- end-user-doc -->
 * @generated NOT
 */
public BindingFault createBindingFault()
{
    javax.wsdl.BindingFault bindingFault = WSDLFactoryImpl.eINSTANCE.createBindingFault();
    return bindingFault;
}

/**
 * <!-- begin-user-doc -->
 * Create a new binding input.
 * @return the newly created binding input
 * <!-- end-user-doc -->
 * @generated NOT
 */
public BindingInput createBindingInput()
{
    javax.wsdl.BindingInput bindingInput = WSDLFactoryImpl.eINSTANCE.createBindingInput();
    return bindingInput;
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * Create a new binding output.
 * @return the newly created binding output
 * <!-- end-user-doc -->
 * @generated NOT
 */
public BindingOutput createBindingOutput()
{
    javax.wsdl.BindingOutput bindingOutput = WSDLFactoryImpl.eINSTANCE.createBindingOutput();
    return bindingOutput;
}

/**
 * <!-- begin-user-doc -->
 * Create a new binding operation.
 * @return the newly created binding operation
 * <!-- end-user-doc -->
 * @generated NOT
 */
public BindingOperation createBindingOperation()
{
    javax.wsdl.BindingOperation bindingOperation = WSDLFactoryImpl.eINSTANCE.createBindingOperation();
    return bindingOperation;
}

/**
 * <!-- begin-user-doc -->
 * Create a new binding.
 * @return the newly created binding
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Binding createBinding()
{
    javax.wsdl.Binding binding = WSDLFactoryImpl.eINSTANCE.createBinding();
    binding.setUndefined(true);
    return binding;
}

/**
 * <!-- begin-user-doc -->
 * Create a new fault.
 * @return the newly created fault
 * <!-- end-user-doc -->
 * @generated NOT

```

```

*/
public Fault createFault()
{
    javax.wsdl.Fault fault = WSDLFactoryImpl.eINSTANCE.createFault();
    return fault;
}

/**
 * <!-- begin-user-doc -->
 * Create a new import.
 * @return the newly created import
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Import createImport()
{
    javax.wsdl.Import importDef = WSDLFactoryImpl.eINSTANCE.createImport();
    return importDef;
}

/**
 * <!-- begin-user-doc -->
 * Create a new input.
 * @return the newly created input
 * <!-- end-user-doc -->
 * @generated NOT
 */
public Input createInput()
{
    javax.wsdl.Input input = WSDLFactoryImpl.eINSTANCE.createInput();
    return input;
}

/**
 * <!-- begin-user-doc -->
 * Create a new message.
 * @return the newly created message
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Message createMessage()
{
    javax.wsdl.Message message = WSDLFactoryImpl.eINSTANCE.createMessage();
    message.setUndefined(true);
    return message;
}

/**

```

```

* <!-- begin-user-doc -->
* Create a new operation.
* @return the newly created operation
* <!-- end-user-doc -->
* @generated NOT
*/
public Operation createOperation()
{
    javax.wsdl.Operation operation = WSDLFactoryImpl.eINSTANCE.createOperation();
    operation.setUndefined(true);
    return operation;
}

/**
* <!-- begin-user-doc -->
* Create a new output.
* @return the newly created output
* <!-- end-user-doc -->
* @generated NOT
*/
public Output createOutput()
{
    javax.wsdl.Output output = WSDLFactoryImpl.eINSTANCE.createOutput();
    return output;
}

/**
* <!-- begin-user-doc -->
* Create a new part.
* @return the newly created part
* <!-- end-user-doc -->
* @generated NOT
*/
public Part createPart()
{
    javax.wsdl.Part part = WSDLFactoryImpl.eINSTANCE.createPart();
    return part;
}

/**
* <!-- begin-user-doc -->
* Create a new port.
* @return the newly created port
* <!-- end-user-doc -->
* @generated NOT
*/
public Port createPort()
{

```

```

    javax.wsdl.Port port = WSDLFactoryImpl.eINSTANCE.createPort();
    return port;
}

/**
 * <!-- begin-user-doc -->
 * Create a new port type.
 * @return the newly created port type
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.PortType createPortType()
{
    javax.wsdl.PortType portType = WSDLFactoryImpl.eINSTANCE.createPortType();
    portType.setUndefined(true);
    return portType;
}

/**
 * <!-- begin-user-doc -->
 * Create a new service.
 * @return the newly created service
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Service createService()
{
    javax.wsdl.Service service = WSDLFactoryImpl.eINSTANCE.createService();
    return service;
}

/**
 * <!-- begin-user-doc -->
 * Get the specified binding. Also checks imported documents.
 * @param name the name of the desired binding.
 * @return the corresponding binding, or null if there wasn't
 * any matching binding
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Binding getBinding(QName name)
{
    return (javax.wsdl.Binding)resolveWSDLElement(WSDLConstants.BINDING, name, this);
}

/**
 * <!-- begin-user-doc -->
 * Get all the bindings defined here.

```

```

* <!-- end-user-doc -->
* @generated NOT
*/
public Map getBindings()
{
    return createMap(WSDLConstants.BINDING, getEBindings());
}

/**
* <!-- begin-user-doc -->
* Get a map of lists containing all the imports defined here.
* The map's keys are the namespaceURIs, and the map's values
* are lists. There is one list for each namespaceURI for which
* imports have been defined.
* <!-- end-user-doc -->
* @generated NOT
*/
public Map getImports()
{
    HashMap map = new HashMap();
    for (Iterator i = getEImports().iterator(); i.hasNext();)
    {
        Import theImport = (Import)i.next();
        String key = theImport.getNamespaceURI();
        if (key == null)
        {
            key = "";
        }

        List list = null;
        if (map.containsKey(key))
        {
            list = (List)map.get(key);
            list.add(theImport);
        }
        else
        {
            list = new ArrayList();
            list.add(theImport);
        }
        map.put(key, list);
    }
    return map;
}

/**
* <!-- begin-user-doc -->
* Get the list of imports for the specified namespaceURI.

```

```

* @param namespaceURI the namespaceURI associated with the
* desired imports.
* @return a list of the corresponding imports
* <!-- end-user-doc -->
* @generated NOT
*/
public List getImports(String namespaceURI)
{
    List list = new ArrayList();
    for (Iterator i = getEImports().iterator(); i.hasNext();)
    {
        Import theImport = (Import)i.next();
        if (WSDLConstants.isMatchingNamespace(namespaceURI, theImport.getNamespaceURI()))
        {
            list.add(theImport);
        }
    }
    return list;
}

/**
* <!-- begin-user-doc -->
* Get the specified message. Also checks imported documents.
* @param name the name of the desired message.
* @return the corresponding message, or null if there wasn't
* any matching message
* <!-- end-user-doc -->
* @generated NOT
*/
public javax.wsdl.Message getMessage(QName name)
{
    return (javax.wsdl.Message)resolveWSDLElement(WSDLConstants.MESSAGE, name, this);
}

/**
* <!-- begin-user-doc -->
* Get all the messages defined here.
* <!-- end-user-doc -->
* @generated NOT
*/
public Map getMessages()
{
    return createMap(WSDLConstants.MESSAGE, getEMessages());
}

/**
* <!-- begin-user-doc -->
* Get the namespace URI associated with this prefix. Or null if

```



```

* there is no namespace URI associated with this prefix. This is
* unrelated to the <wSDL:import> element.
* @see #addNamespace(String, String)
* @see #getPrefix(String)
* <!-- end-user-doc -->
* @generated NOT
*/
public String getNamespace(String prefix)
{
    return (String)getNamespaces().get(prefix);
}

/**
* <!-- begin-user-doc -->
* Get all namespace associations in this definition. The keys are
* the prefixes, and the namespace URIs are the values. This is
* unrelated to the <wSDL:import> element.
* @see #addNamespace(String, String)
* <!-- end-user-doc -->
* @generated NOT
*/
public Map getNamespaces()
{
    return namespaces;
}

/**
* <!-- begin-user-doc -->
* Get the specified portType. Also checks imported documents.
* @param name the name of the desired portType.
* @return the corresponding portType, or null if there wasn't
* any matching portType
* <!-- end-user-doc -->
* @generated NOT
*/
public javax.wsdl.PortType getPortType(QName name)
{
    return (javax.wsdl.PortType)resolveWSDLElement(WSDLConstants.PORT_TYPE, name, this);
}

/**
* <!-- begin-user-doc -->
* Get all the portTypes defined here.
* <!-- end-user-doc -->
* @generated NOT
*/
public Map getPortTypes()
{

```

```

    return createMap(WSDLConstants.PORT_TYPE, getEPortTypes());
}

/**
 * <!-- begin-user-doc -->
 * Get a prefix associated with this namespace URI. Or null if
 * there are no prefixes associated with this namespace URI. This is
 * unrelated to the <wsi:import> element.
 * @see #addNamespace(String, String)
 * @see #getNamespace(String)
 * <!-- end-user-doc -->
 * @generated NOT
 */
public String getPrefix(String namespaceURI)
{
    if (namespaceURI == null)
        return null;

    Iterator entryIterator = getNamespaces().entrySet().iterator();
    while (entryIterator.hasNext())
    {
        Map.Entry entry = (Map.Entry)entryIterator.next();
        String prefix = (String)entry.getKey();
        String assocNamespaceURI = (String)entry.getValue();

        if (namespaceURI.equals(assocNamespaceURI) && prefix != "") // default namespace
            return prefix;
    }
    return null;
}

/**
 * <!-- begin-user-doc -->
 * Get the specified service. Also checks imported documents.
 * @param name the name of the desired service.
 * @return the corresponding service, or null if there wasn't
 * any matching service
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Service getService(QName name)
{
    return (javax.wsdl.Service)resolveWSDLElement(WSDLConstants.SERVICE, name, this);
}

/**
 * <!-- begin-user-doc -->
 * Get all the services defined here.

```

```

* <!-- end-user-doc -->
* @generated NOT
*/
public Map getServices()
{
    return createMap(WSDLConstants.SERVICE, getEServices());
}

/**
* <!-- begin-user-doc -->
* Get a reference to the ExtensionRegistry for this Definition.
* <!-- end-user-doc -->
* @generated NOT
*/
public ExtensionRegistry getExtensionRegistry()
{
    return extensionRegistry;
}

/**
* <!-- begin-user-doc -->
* Set the ExtensionRegistry for this Definition.
* <!-- end-user-doc -->
* @generated NOT
*/
public void setExtensionRegistry(ExtensionRegistry extensionRegistry)
{
    this.extensionRegistry = extensionRegistry;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated NOT
*/
public String getDocumentBaseURI()
{
    return getLocation();
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated NOT
*/
public void setDocumentBaseURI(String documentBase)
{
    setLocation(documentBase);
}

```

```

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Types createTypes()
{
    javax.wsdl.Types types = WSDLFactoryImpl.eINSTANCE.createTypes();
    return types;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Service removeService(QName name)
{
    WSDLElement wsdlElement = resolveWSDLElement(WSDLConstants.SERVICE, name);
    boolean removed = false;
    if (wsdlElement instanceof Service)
        removed = getEServices().remove(wsdlElement);
    if (!removed)
        wsdlElement = null;
    return (Service)wsdlElement;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Binding removeBinding(QName name)
{
    WSDLElement wsdlElement = resolveWSDLElement(WSDLConstants.BINDING, name);
    boolean removed = false;
    if (wsdlElement instanceof Binding)
        removed = getEBindings().remove(wsdlElement);
    if (!removed)
        wsdlElement = null;
    return (Binding)wsdlElement;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated NOT
*/
public javax.wsdl.PortType removePortType(QName name)
{
    WSDLElement wsdlElement = resolveWSDLElement(WSDLConstants.PORT_TYPE, name);
    boolean removed = false;
    if (wsdlElement instanceof PortType)
        removed = getEPortTypes().remove(wsdlElement);
    if (!removed)
        wsdlElement = null;
    return (PortType)wsdlElement;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Message removeMessage(QName name)
{
    WSDLElement wsdlElement = resolveWSDLElement(WSDLConstants.MESSAGE, name);
    boolean removed = false;
    if (wsdlElement instanceof Message)
        removed = getEMessages().remove(wsdlElement);
    if (!removed)
        wsdlElement = null;
    return (Message)wsdlElement;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public javax.wsdl.Types getTypes()
{
    return getETypes();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setTypes(javax.wsdl.Types types)
{
    setETypes((Types)types);
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case WSDLPackage.DEFINITION__EIMPORTS:
            return ((InternalEList)getEImports()).basicRemove(otherEnd, msgs);
        case WSDLPackage.DEFINITION__ETYPES:
            return basicSetETypes(null, msgs);
        case WSDLPackage.DEFINITION__EMESSAGES:
            return ((InternalEList)getEMessages()).basicRemove(otherEnd, msgs);
        case WSDLPackage.DEFINITION__EPORT_TYPES:
            return ((InternalEList)getEPortTypes()).basicRemove(otherEnd, msgs);
        case WSDLPackage.DEFINITION__EBINDINGS:
            return ((InternalEList)getEBindings()).basicRemove(otherEnd, msgs);
        case WSDLPackage.DEFINITION__ESERVICES:
            return ((InternalEList)getEServices()).basicRemove(otherEnd, msgs);
        case WSDLPackage.DEFINITION__ENAMESPACES:
            return ((InternalEList)getENamespaces()).basicRemove(otherEnd, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.DEFINITION__TARGET_NAMESPACE:
            return getTargetNamespace();
        case WSDLPackage.DEFINITION__LOCATION:
            return getLocation();
        case WSDLPackage.DEFINITION__QNAME:
            return getQName();
        case WSDLPackage.DEFINITION__ENCODING:
            return getEncoding();
        case WSDLPackage.DEFINITION__EIMPORTS:
            return getEImports();
        case WSDLPackage.DEFINITION__ETYPES:

```

```

return getETypes();
case WSDLPackage.DEFINITION__EMESSAGES:
return getEMessages();
case WSDLPackage.DEFINITION__EPORT_TYPES:
return getEPortTypes();
case WSDLPackage.DEFINITION__EBINDINGS:
return getEBindings();
case WSDLPackage.DEFINITION__ESERVICES:
return getEServices();
case WSDLPackage.DEFINITION__ENAMESPACES:
return getENamespaces();
}
return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
switch (featureID)
{
case WSDLPackage.DEFINITION__TARGET_NAMESPACE:
setTargetNamespace((String)newValue);
return;
case WSDLPackage.DEFINITION__LOCATION:
setLocation((String)newValue);
return;
case WSDLPackage.DEFINITION__QNAME:
setQName((QName)newValue);
return;
case WSDLPackage.DEFINITION__ENCODING:
setEncoding((String)newValue);
return;
case WSDLPackage.DEFINITION__EIMPORTS:
getEImports().clear();
getEImports().addAll((Collection)newValue);
return;
case WSDLPackage.DEFINITION__ETYPES:
setETypes((Types)newValue);
return;
case WSDLPackage.DEFINITION__EMESSAGES:
getEMessages().clear();
getEMessages().addAll((Collection)newValue);
return;
case WSDLPackage.DEFINITION__EPORT_TYPES:

```

```

getEPortTypes().clear();
getEPortTypes().addAll((Collection)new Value);
return;
case WSDLPackage.DEFINITION__EBINDINGS:
getEBindings().clear();
getEBindings().addAll((Collection)new Value);
return;
case WSDLPackage.DEFINITION__ESERVICES:
getEServices().clear();
getEServices().addAll((Collection)new Value);
return;
case WSDLPackage.DEFINITION__ENAMESPACES:
getENamespaces().clear();
getENamespaces().addAll((Collection)new Value);
return;
}
super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
switch (featureID)
{
case WSDLPackage.DEFINITION__TARGET_NAMESPACE:
setTargetNamespace(TARGET_NAMESPACE_EDEFAULT);
return;
case WSDLPackage.DEFINITION__LOCATION:
setLocation(LOCATION_EDEFAULT);
return;
case WSDLPackage.DEFINITION__QNAME:
setQName(QNAME_EDEFAULT);
return;
case WSDLPackage.DEFINITION__ENCODING:
setEncoding(ENCODING_EDEFAULT);
return;
case WSDLPackage.DEFINITION__EIMPORTS:
getEImports().clear();
return;
case WSDLPackage.DEFINITION__ETYPES:
setETypes((Types)null);
return;
case WSDLPackage.DEFINITION__EMESSAGES:
getEMessages().clear();

```



```

return;
case WSDLPackage.DEFINITION__EPORT_TYPES:
getEPortTypes().clear();
return;
case WSDLPackage.DEFINITION__EBINDINGS:
getEBindings().clear();
return;
case WSDLPackage.DEFINITION__ESERVICES:
getEServices().clear();
return;
case WSDLPackage.DEFINITION__ENAMESPACES:
getENamespaces().clear();
return;
}
super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
switch (featureID)
{
case WSDLPackage.DEFINITION__TARGET_NAMESPACE:
return TARGET_NAMESPACE_EDEFAULT == null ? targetNamespace != null :
!TARGET_NAMESPACE_EDEFAULT.equals(targetNamespace);
case WSDLPackage.DEFINITION__LOCATION:
return LOCATION_EDEFAULT == null ? location != null : !LOCATION_EDEFAULT.equals(location);
case WSDLPackage.DEFINITION__QNAME:
return QNAME_EDEFAULT == null ? qName != null : !QNAME_EDEFAULT.equals(qName);
case WSDLPackage.DEFINITION__ENCODING:
return ENCODING_EDEFAULT == null ? encoding != null : !ENCODING_EDEFAULT.equals(encoding);
case WSDLPackage.DEFINITION__EIMPORTS:
return eImports != null && !eImports.isEmpty();
case WSDLPackage.DEFINITION__ETYPES:
return eTypes != null;
case WSDLPackage.DEFINITION__EMESSAGES:
return eMessages != null && !eMessages.isEmpty();
case WSDLPackage.DEFINITION__EPORT_TYPES:
return ePortTypes != null && !ePortTypes.isEmpty();
case WSDLPackage.DEFINITION__EBINDINGS:
return eBindings != null && !eBindings.isEmpty();
case WSDLPackage.DEFINITION__ESERVICES:
return eServices != null && !eServices.isEmpty();
case WSDLPackage.DEFINITION__ENAMESPACES:

```

```

        return eNamespaces != null && !eNamespaces.isEmpty();
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public Document getDocument()
{
    return document;
}

/**
 * <!-- begin-user-doc -->
 * Sets the owner document.
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setDocument(Document document)
{
    this.document = document;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (targetNamespace: "); //$NON-NLS-1$
    result.append(targetNamespace);
    result.append(", location: "); //$NON-NLS-1$
    result.append(location);
    result.append(", qName: "); //$NON-NLS-1$
    result.append(qName);
    result.append(", encoding: "); //$NON-NLS-1$
    result.append(encoding);
    result.append(')');
    return result.toString();
}

```

```

//
// Hand-coded methods
//

protected static ResourceSet globalResourceSet;

public static synchronized ResourceSet getGlobalResourceSet()
{
    if (globalResourceSet == null)
    {
        globalResourceSet = createResourceSet();
        //String baseUrl = WSDLPlugin.INSTANCE.getBaseUrl().toString();
        //System.out.println("Base URL is: " + baseUrl);
    }

    return globalResourceSet;
}

public static ResourceSet createResourceSet()
{
    ResourceSet result = new ResourceSetImpl();
    result.getResourceFactoryRegistry().getExtensionToFactoryMap().put("wsdl", new
WSDLResourceFactoryImpl()); //$NON-NLS-1$
    return result;
}

public static Definition createDefinition(Node node)
{
    return createDefinition(node, null);
}

public static Definition createDefinition(Node node, String location)
{
    return createDefinition(node, location, true);
}

public static Definition createDefinition(Node node, String location, boolean useExtensionFactories)
{
    Definition definition = WSDLFactory.eINSTANCE.createDefinition();
    ((DefinitionImpl)definition).setUseExtensionFactories(useExtensionFactories);
    definition.setElement((Element)node);
    definition.setDocumentBaseURI(location);
    return definition;
}

private WSDLElement resolveWSDLElement(int type, List list, QName qname)
{

```

```

WSDLElement result = null;
if (qname != null)
{
    for (Iterator i = list.iterator(); i.hasNext();)
    {
        WSDLElement wsdlElement = (WSDLElement)i.next();
        QName theQName = getQNameForWSDLElement(type, wsdlElement);
        if (qname.equals(theQName))
        {
            result = wsdlElement;
            break;
        }
    }
}
return result;
}

```

```

private HashMap createMap(int type, List list)
{
    HashMap map = new HashMap();
    for (Iterator i = list.iterator(); i.hasNext();)
    {
        WSDLElement wsdlElement = (WSDLElement)i.next();
        QName theQName = getQNameForWSDLElement(type, wsdlElement);
        if (theQName != null)
        {
            map.put(theQName, wsdlElement);
        }
    }
    return map;
}

```

```

private QName getQNameForWSDLElement(int type, WSDLElement wsdlElement)
{
    QName result = null;
    switch (type)
    {
        case WSDLConstants.MESSAGE:
            result = ((Message)wsdlElement).getQName();
            break;
        case WSDLConstants.PORT_TYPE:
            result = ((PortType)wsdlElement).getQName();
            break;
        case WSDLConstants.BINDING:
            result = ((Binding)wsdlElement).getQName();
            break;
        case WSDLConstants.SERVICE:
            result = ((Service)wsdlElement).getQName();

```

```

        break;
    }
    return result;
}

/**
 * Resolves the element described by type and qname in the context of the
 * given definition. The definition's imported definitions are checked as well.
 *
 * @param type the element type.
 * @param qname the element's QName. Must not be null.
 * @param definition the context definition. Must not be null.
 * @return the resolved WSDLElement or null if one cannot be found.
 */
private static WSDLElement resolveWSDLElement(int type, QName qname, DefinitionImpl definition)
{
    if (qname == null || qname.getNamespaceURI() == null)
    {
        return null;
    }

    List definitions = new ArrayList();
    definitions.add(definition);
    WSDLElement result = resolveWSDLElement(type, qname, definitions, new ArrayList());

    return result;
}

/**
 * Resolves the element described by type and qname in the context of the
 * given definitions. The definitions imported definitions are checked as well.
 *
 * * IMPORTANT! This method is recursive. It checks the definitions and all their
 * imported definitions. It also is coded such that it avoids a cyclic import
 * should one be encountered.
 *
 * @param type the element type.
 * @param qname the element's QName.
 * @param definitions the context definitions
 * @param visitedDefinitions a list with the definitions already visited.
 * @return the resolved WSDLElement or null if one cannot be found.
 */
private static WSDLElement resolveWSDLElement(int type, QName qname, List definitions, List
visitedDefinitions)
{
    WSDLElement result = null;

    if (definitions.isEmpty())

```

```

{
    return result;
}

// In order to preserve the old behaviour which used to check the definition
// and all first level imports, check the entire list of definitions passed
// in first.

Iterator definitionsIterator = definitions.iterator();

while (definitionsIterator.hasNext())
{
    DefinitionImpl definition = (DefinitionImpl)definitionsIterator.next();

    result = definition.resolveWSDLElement(type, qname);

    if (result != null)
    {
        return result;
    }
}

// Re-iterate over the definitions and recurse into their imports.

definitionsIterator = definitions.iterator();

while (definitionsIterator.hasNext())
{
    DefinitionImpl definition = (DefinitionImpl)definitionsIterator.next();

    if (visitedDefinitions.contains(definition))
    {
        // This might happen if we have a case of cyclic imports. Since we
        // already looked in it, we can and should skip it.

        continue;
    }

    visitedDefinitions.add(definition);

    List importedDefinitions = definition.getImportedDefinitions(qname.getNamespaceURI());

    result = resolveWSDLElement(type, qname, importedDefinitions, visitedDefinitions);

    if (result != null)
    {
        break;
    }
}

```

```

    }

    return result;
}

private WSDLElement resolveWSDLElement(int type, QName qname)
{
    WSDLElement result = null;
    if (qname.getNamespaceURI() != null)
    {
        switch (type)
        {
            case WSDLConstants.MESSAGE:
                result = resolveWSDLElement(type, getEMessages(), qname);
                break;
            case WSDLConstants.PORT_TYPE:
                result = resolveWSDLElement(type, getEPortTypes(), qname);
                break;
            case WSDLConstants.BINDING:
                result = resolveWSDLElement(type, getEBindings(), qname);
                break;
            case WSDLConstants.SERVICE:
                result = resolveWSDLElement(type, getEServices(), qname);
                break;
        }
    }
    return result;
}

//
// Reconciliation methods
//

public void setElement(Element element)
{
    Element oldElement = getElement();
    if (oldElement instanceof EventTarget)
    {
        EventTarget oldEventTarget = ((EventTarget)oldElement);
        oldEventTarget.removeEventListener("DOMNodeInserted", getEventListener(), true); //$NON-NLS-1$
        oldEventTarget.removeEventListener("DOMNodeRemoved", getEventListener(), true); //$NON-NLS-1$
        oldEventTarget.removeEventListener("DOMAttrModified", getEventListener(), true); //$NON-NLS-1$
    }
    super.setElement(element);
    if (element instanceof EventTarget)
    {
        EventTarget eventTarget = ((EventTarget)element);
        eventTarget.addEventListener("DOMNodeInserted", getEventListener(), true); //$NON-NLS-1$
    }
}

```

```

    eventTarget.addEventListener("DOMNodeRemoved", getEventListener(), true); //$NON-NLS-1$
    eventTarget.addEventListener("DOMAttrModified", getEventListener(), true); //$NON-NLS-1$
}
if (element != null)
{
    document = element.getOwnerDocument();
}
}

protected void reconcileAttributes(Element changedElement)
{
    super.reconcileAttributes(changedElement);

    if (changedElement == getElement())
    {
        if (changedElement.hasAttribute(WSDLConstants.TARGETNAMESPACE_ATTRIBUTE))
            setTargetNamespace(changedElement.getAttribute(WSDLConstants.TARGETNAMESPACE_ATTRIBUTE));
        if (changedElement.hasAttribute(WSDLConstants.NAME_ATTRIBUTE))
            setQName(new QName(WSDLConstants.WSDL_NAMESPACE_URI,
changedElement.getAttribute(WSDLConstants.NAME_ATTRIBUTE)));
        getENamespaces().clear();
        getNamespaces().clear();
        //getNamespaces().put("", null);

        NamedNodeMap map = changedElement.getAttributes();
        int mapLength = map.getLength();
        for (int i = 0; i < mapLength; i++)
        {
            Attr attr = (Attr)map.item(i);
            String nsPrefix = null;
            if (XMLNS.equals(attr.getPrefix()))
            {
                nsPrefix = attr.getLocalName();
            }
            else if (XMLNS.equals(attr.getNodeName()))
            {
                nsPrefix = "";
            }

            if (nsPrefix != null)
            {
                getNamespaces().put(nsPrefix, attr.getValue());
            }
        }
    }
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)

```



```

{
switch (WSDLUtil.getInstance().getWSDLType(child))
{
case WSDLConstants.BINDING:
{
Binding binding = WSDLFactory.eINSTANCE.createBinding();
binding.setEnclosingDefinition(this);
binding.setElement(child);
addBinding(binding);
break;
}
case WSDLConstants.DOCUMENTATION:
{
// CS: we need to figure out how to unset this element when its removed
//definition.setDocumentationElement(child);
break;
}
case WSDLConstants.IMPORT:
{
Import i = WSDLFactory.eINSTANCE.createImport();
i.setEnclosingDefinition(this);
i.setElement(child);
addImport(i);
break;
}
case WSDLConstants.MESSAGE:
{
Message message = WSDLFactory.eINSTANCE.createMessage();
message.setEnclosingDefinition(this);
message.setElement(child);
addMessage(message);
break;
}
case WSDLConstants.PORT_TYPE:
{
PortType portType = WSDLFactory.eINSTANCE.createPortType();
portType.setEnclosingDefinition(this);
portType.setElement(child);
addPortType(portType);
break;
}
case WSDLConstants.SERVICE:
{
Service service = WSDLFactoryImpl.eINSTANCE.createService();
service.setEnclosingDefinition(this);
service.setElement(child);
addService(service);
break;
}
}
}

```

```

    }
    case WSDLConstants.TYPES:
    {
        if (getETypes() == null)
        {
            Types types = WSDLFactoryImpl.eINSTANCE.createTypes();
            types.setEnclosingDefinition(this);
            types.setElement(child);
            setETypes(types);
        }
        break;
    }
    default:
    {
        ExtensibilityElement extensibilityElement = getUseExtensionFactories()
            ? ((WSDLFactoryImpl)WSDLFactory.eINSTANCE).createExtensibilityElement(getNamespace(child),
            getLocalName(child))
            : ((WSDLFactoryImpl)WSDLFactory.eINSTANCE).createUnknownExtensibilityElement();

        extensibilityElement.setEnclosingDefinition(this);
        extensibilityElement.setElement(child);
        getEExtensibilityElements().add(extensibilityElement);
        break;
    }
}

```

```

protected void handleReconciliation(Collection remainingModelObjects)

```

```

{
    for (Iterator i = remainingModelObjects.iterator(); i.hasNext();)
    {
        remove(this, i.next());
    }
    reconcileReferences(true);
}

```

```

protected void remove(Object component, Object modelObject)

```

```

{
    if (modelObject instanceof Types)
    {
        Definition definition = (Definition)component;
        if (definition.getETypes() == modelObject)
        {
            definition.setETypes(null);
        }
    }
    else
    {

```

```

List list = getList(component, modelObject);
if (list != null)
{
    list.remove(modelObject);
}
}

private List getList(Object component, Object modelObject)
{
    List result = null;
    Definition definition = (Definition)component;

    // todo... use WSDLSwitch
    //
    if (modelObject instanceof Binding)
    {
        result = definition.getEBindings();
    }
    else if (modelObject instanceof Import)
    {
        result = definition.getEImports();
    }
    else if (modelObject instanceof Message)
    {
        result = definition.getEMessages();
    }
    else if (modelObject instanceof PortType)
    {
        result = definition.getEPortTypes();
    }
    else if (modelObject instanceof Service)
    {
        result = definition.getEServices();
    }
    else if (modelObject instanceof ExtensibilityElement)
    {
        result = definition.getEExtensibilityElements();
    }
    return result;
}

public Collection getModelObjects(Object component)
{
    List list = new ArrayList();
    Definition definition = (Definition)component;
    list.addAll(definition.getEImports());
    list.add(definition.getETypes());
}

```

```

list.addAll(definition.getEMessages());
list.addAll(definition.getEPortTypes());
list.addAll(definition.getEBindings());
list.addAll(definition.getEServices());
list.addAll(definition.getEExtensibilityElements());
return list;
}

//
// For reconciliation: Model -> DOM
//

public Document updateDocument()
{
    document = createDocument();
    return document;
}

private Document createDocument()
{
    try
    {
        DocumentBuilderFactory documentBuilderFactory = DocumentBuilderFactory.newInstance();
        documentBuilderFactory.setNamespaceAware(true);
        documentBuilderFactory.setValidating(false);
        DocumentBuilder documentBuilder = documentBuilderFactory.newDocumentBuilder();
        return documentBuilder.newDocument();
    }
    catch (ParserConfigurationException exception)
    {
        WSDLPlugin.INSTANCE.log(exception);
        return null;
    }
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.DEFINITION);
    setElement(newElement);
    addChildElements(newElement, getEExtensibilityElements());

    addChildElements(newElement, getEImports());

    Types types = getETypes();
    if (types != null)
    {
        Element child = ((TypesImpl)types).createElement();
        newElement.appendChild(child);
    }
}

```

```

    }

    addChildElements(newElement, getEMessages());
    addChildElements(newElement, getEPortTypes());
    addChildElements(newElement, getEBindings());
    addChildElements(newElement, getEServices());

    return newElement;
}

protected void addChildElements(Element parent, List c)
{
    for (Iterator iterator = c.iterator(); iterator.hasNext();)
    {
        WSDLElementImpl wsdlElement = (WSDLElementImpl)iterator.next();
        Element child = wsdlElement.createElement();
        parent.appendChild(child);
    }
}

protected void changeReference(EReference eReference)
{
    // Add namespace prefix info
    // TBD - Need to revisit.
    Element theElement = getElement();
    if (eReference == null && theElement != null)
    // We are updating the Definition element.
    {
        Iterator iterator = getNamespaces().entrySet().iterator();
        String prefix = null;
        String uri = null;
        while (iterator.hasNext())
        {
            Map.Entry entry = (Map.Entry)iterator.next();
            prefix = (String)entry.getKey();
            uri = (String)entry.getValue();
            if (prefix != "")
                theElement.setAttributeNS(XSDConstants.XMLNS_URI_2000, "xmlns:" + prefix, uri); //NON-NLS-1$
            else if (uri != null)
                // Handle default namespace, e.g. xmlns="http://schemas.xmlsoap.org/wsdl/"
                theElement.setAttributeNS(XSDConstants.XMLNS_URI_2000, XMLNS, uri);
        }
    }
}

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)

```

```

return;

super.changeAttribute(eAttribute);
Element theElement = getElement();
if (theElement != null)
{
    //if (eAttribute == null || eAttribute == WSDLPackage.eINSTANCE.getDefinition_Encoding())
    // niceSetAttribute(theElement, WSDLConstants.ENCODING_ATTRIBUTE, getEncoding());
    if (eAttribute == null || eAttribute == WSDLPackage.Literals.DEFINITION__QNAME)
        if (getQName() != null)
            niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getQName().getLocalPart());
    if (eAttribute == null || eAttribute == WSDLPackage.Literals.DEFINITION__TARGET_NAMESPACE)
    {
        if (getTargetNamespace() != null)
        {
            niceSetAttribute(theElement, WSDLConstants.TARGETNAMESPACE_ATTRIBUTE,
getTargetNamespace());
            if (eAttribute != null && !isReconciling)
            {
                patchTargetNamespace();
            }
        }
    }
}

private List getImportedDefinitions(String namespace)
{
    List list = new ArrayList();

    for (Iterator i = getImports(namespace).iterator(); i.hasNext();)
    {
        Import theImport = (Import)i.next();
        ((ImportImpl)theImport).importDefinitionOrSchema();
        Definition importedDefinition = theImport.getEDefinition();
        if (importedDefinition != null && WSDLConstants.isMatchingNamespace(namespace,
importedDefinition.getTargetNamespace()))
        {
            list.add(importedDefinition);
        }
    }

    return list;
}

public XSDElementDeclaration resolveElementDeclarationURI(String uri)
{
    XSDElementDeclaration result = null;

```

```

int index = uri.lastIndexOf("#");
if (index != -1)
{
    result = resolveElementDeclaration(uri.substring(0, index), uri.substring(index + 1));
}
return result;
}

private boolean isComponentDefined(XSDConcreteComponent component)
{
    // note the getContainer() test to eliminate 'synthetic' types
    // that are created by the XMLSchema model when resolution fails
    return component != null && component.getContainer() != null;
}

public XSDElementDeclaration resolveElementDeclaration(String namespace, String localName)
{
    XSDElementDeclaration result = null;
    for (Iterator i = resolveSchema(namespace).iterator(); i.hasNext();)
    {
        XSDSchema schema = (XSDSchema)i.next();
        result = schema.resolveElementDeclaration(namespace, localName);
        if (isComponentDefined(result))
            return result;
    }

    // Could not resolve. Try against all <import>ed and inlined schemas.
    for (Iterator i = getImportedOrInlinedSchemas().iterator(); i.hasNext();)
    {
        XSDSchema schema = (XSDSchema)i.next();
        result = schema.resolveElementDeclaration(namespace, localName);
        if (isComponentDefined(result))
            return result;
    }

    return result;
}

public XSDTypeDefinition resolveTypeDefinitionURI(String uri)
{
    XSDTypeDefinition result = null;
    int index = uri.lastIndexOf("#");
    if (index != -1)
    {
        result = resolveTypeDefinition(uri.substring(0, index), uri.substring(index + 1));
    }
    return result;
}

```

```

public XSDTypeDefinition resolveTypeDefinition(String namespace, String localName)
{
    XSDTypeDefinition result = null;
    for (Iterator i = resolveSchema(namespace).iterator(); i.hasNext();)
    {
        XSDSchema schema = (XSDSchema)i.next();
        result = schema.resolveTypeDefinition(namespace, localName);
        if (isComponentDefined(result))
            return result;
    }

    // Could not resolve. Try against all <import>ed and inlined schemas.
    for (Iterator i = getImportedOrInlinedSchemas().iterator(); i.hasNext();)
    {
        XSDSchema schema = (XSDSchema)i.next();
        result = schema.resolveTypeDefinition(namespace, localName);
        if (isComponentDefined(result))
            return result;
    }

    return result; // Failed to resolve.
}

/**
 * This returns set of schemas with the given namespace as it's target namespace.
 */
public Collection resolveSchema(String namespace)
{
    if ("".equals(namespace))
    {
        namespace = null;
    }

    if (XSDConstants.isSchemaForSchemaNamespace(namespace))
    {
        return Collections.singleton(XSDSchemaImpl.getSchemaForSchema(namespace));
    }
    else if (XSDConstants.isSchemaInstanceNamespace(namespace))
    {
        return Collections.singleton(XSDSchemaImpl.getSchemaInstance(namespace));
    }
    else
    {
        return getImportedOrInlinedSchemas(namespace);
    }
}

```



```

protected List getImportedOrInlinedSchemas(String namespace)
{
    if (namespace == null)
    {
        namespace = "";
    }

    List list = new ArrayList();
    collectImportedSchemas(namespace, list);
    collectInlinedSchemas(namespace, list);
    collectInlinedSchemasOfImportedDefinitions(namespace, list);
    return list;
}

```

```

private List getImportedOrInlinedSchemas()
{
    List list = new ArrayList();
    for (Iterator i = getEImports().iterator(); i.hasNext();)
    {
        Import theImport = (Import)i.next();
        ((ImportImpl)theImport).importDefinitionOrSchema();
        XSDSchema schema = theImport.getESchema();
        if (schema != null)
            list.add(schema);
    }

    if (getETypes() != null)
    {
        list.addAll(getETypes().getSchemas());
    }
    return list;
}

```

```

protected EventListener eventListener;

```

```

protected Node deletionNode;

```

```

public Node getDeletionNode()
{
    return deletionNode;
}

```

```

protected EventListener getEventListener()
{
    if (eventListener == null)
    {
        eventListener = new EventListener()
        {

```

```

public void handleEvent(Event event)
{
    if (event instanceof MutationEvent)
    {
        MutationEvent mutationEvent = (MutationEvent)event;
        if (mutationEvent.getTarget() instanceof Node)
        {
            Node node = (Node)mutationEvent.getTarget();
            while (node.getNodeType() != Node.ELEMENT_NODE)
            {
                node = node.getParentNode();
            }
            if (mutationEvent.getAttrChange() == 0)
            {
                WSDLElementImpl listener =
(WSDLElementImpl)getCorrespondingComponent(node.getParentNode());
                if (listener != null)
                {
                    if (event.getType().equals("DOMNodeRemoved")) //$NON-NLS-1$
                    {
                        deletionNode = (Node)event.getTarget();
                    }
                    listener.elementContentsChanged((Element)node.getParentNode());
                    deletionNode = null;
                }
            }
            else
            {
                WSDLElementImpl listener = (WSDLElementImpl)getCorrespondingComponent(node);
                if (listener != null)
                {
                    listener.elementAttributesChanged((Element)node);
                }
            }
        }
    }
};
}
return eventListener;
}

```

```

public WSDLElement getCorrespondingComponent(Node node)
{
    // We consider all parents so that they can handle other contained nodes that otherwise don't correspond to a
    component.
    //
    List parents = new ArrayList();

```

```

if (node.getNodeType() == Node.ATTRIBUTE_NODE)
{
    node = ((Attr)node).getOwnerElement();
}
else
{
    // Skip ahead to an element.
    //
    for (Node scanNode = node; scanNode != null; scanNode = scanNode.getNextSibling())
    {
        if (scanNode.getNodeType() == Node.ELEMENT_NODE)
        {
            node = scanNode;
            break;
        }
    }

    // Skip back to an element.
    //
    for (Node scanNode = node; scanNode != null; scanNode = scanNode.getPreviousSibling())
    {
        if (scanNode.getNodeType() == Node.ELEMENT_NODE)
        {
            node = scanNode;
            break;
        }
    }

    // Navigate out through the elements.
    //
    for (Node parent = node; parent != null; parent = parent.getParentNode())
    {
        if (parent.getNodeType() == Node.ELEMENT_NODE)
        {
            parents.add(parent);
        }
    }

    WSDLElement bestWSDLElement = getBestWSDLElement(parents);
    return bestWSDLElement;
}

//
//
//
private boolean useExtensionFactories = true;

```

```

public void setUseExtensionFactories(boolean value)
{
    useExtensionFactories = value;
}

public boolean getUseExtensionFactories()
{
    return useExtensionFactories;
}

// See Bug 5366
public void removeAll()
{
    try
    {
        isReconciling = true;
        document = null;
        element = null;
        getEServices().clear();
        getEBindings().clear();
        getEPortTypes().clear();
        getEMessages().clear();
        setETypes(null);
        getEImports().clear();
        getEEExtensibilityElements().clear();
    }
    catch (Exception e)
    {
        }
    finally
    {
        isReconciling = false;
    }
}

public void setInlineSchemaLocations(Resource resource)
{
    // Initialize the inline schemas location
    Types types = this.getETypes();
    if (types != null)
    {
        Iterator iterator = types.getEEExtensibilityElements().iterator();
        while (iterator.hasNext())
        {
            ExtensibilityElement extensibilityElement = (ExtensibilityElement)iterator.next();
            if (!(extensibilityElement instanceof XSDSchemaExtensibilityElement))

```

```

    {
        continue;
    }
    XSDSchemaExtensibilityElement el = (XSDSchemaExtensibilityElement)extensibilityElement;
    XSDSchema schema = el.getSchema();
    if (schema != null)
    {
        // We need this try-catch block in case we encounter an exception while attempting
        // to resolve the schema. In the case of the WSDL Editor, we get a
        // 'cannot create part exception'.....See eclipse bugzilla bug 89855
        try
        {
            schema.setSchemaLocation(resource.getURI().toString());
        }
        catch (Exception e)
        {

        }
    }
}
}

/**
 * This method will collect the schemas matching the namespace
 * that are inlined directly within this definition.
 *
 * @param namespace the namespace to match.
 * @param list all inline schemas that match the namespace will be added to this list.
 */
protected void collectInlinedSchemas(String namespace, List list)
{
    Types types = getETypes();
    if (types != null)
    {
        List schemas = types.getSchemas();
        Iterator schemasIterator = schemas.iterator();
        while (schemasIterator.hasNext())
        {
            XSDSchema schema = (XSDSchema)schemasIterator.next();
            String targetNamespace = schema.getTargetNamespace();

            if (WSDLConstants.isMatchingNamespace(namespace, targetNamespace))
            {
                list.add(schema);
            }

            EList schemaContents = schema.getContents();

```

```

Iterator schemaContentsIterator = schemaContents.iterator();

while (schemaContentsIterator.hasNext())
{
    Object component = schemaContentsIterator.next();
    if (component instanceof XSDImport)
    {
        XSDImport theImport = (XSDImport)component;
        String importNamespace = theImport.getNamespace();
        if (WSDLConstants.isMatchingNamespace(namespace, importNamespace))
        {
            ((XSDImportImpl)theImport).importSchema();
            XSDSchema importedSchema = theImport.getResolvedSchema();
            if (importedSchema != null)
            {
                list.add(importedSchema);
            }
        }
    }
}

/**
 * This method will collect any schema matching the given namespace that are
 * imported directly via a wsdl import (e.g. <wsdl:import schemaLocation="Foo.xsd" ...)
 *
 * @param namespace the namespace to match
 * @param list all imported schemas that match the namespace will be added to this list.
 */
protected void collectImportedSchemas(String namespace, List list)
{
    EList imports = getEImports();
    Iterator importsIterator = imports.iterator();
    while (importsIterator.hasNext())
    {
        Import theImport = (Import)importsIterator.next();
        String importNamespaceURI = theImport.getNamespaceURI();

        if (WSDLConstants.isMatchingNamespace(importNamespaceURI, namespace))
        {
            ((ImportImpl)theImport).importDefinitionOrSchema();
            XSDSchema schema = theImport.getESchema();

            if (schema != null && WSDLConstants.isMatchingNamespace(schema.getTargetNamespace(), namespace))
            {
                list.add(schema);
            }
        }
    }
}

```

```

    }
    }
}

/**
 * This method will visit any imported wsdl's and collect any contained inlined schemas that match
 * the given namespace.
 *
 * @param namespace the namespace to match
 * @param list all inlined schemas of imported definitions that match the namespace will be added to this list.
 */
protected void collectInlinedSchemasOfImportedDefinitions(String namespace, List list)
{
    EList imports = getEImports();
    Iterator importsIterator = imports.iterator();
    while (importsIterator.hasNext())
    {
        Import theImport = (Import)importsIterator.next();
        DefinitionImpl importedDefinition = (DefinitionImpl)theImport.getEDefinition();
        if (importedDefinition != null)
        {
            importedDefinition.collectInlinedSchemas(namespace, list);
        }
    }
}

/**
 * Propagates the change in the target namespace to all the top level named components.
 */
private void patchTargetNamespace()
{
    EList messages = getEMessages();
    patchTargetNamespace(messages, WSDLConstants.MESSAGE);

    EList portTypes = getEPortTypes();
    patchTargetNamespace(portTypes, WSDLConstants.PORT_TYPE);

    EList bindings = getEBindings();
    patchTargetNamespace(bindings, WSDLConstants.BINDING);

    EList services = getEServices();
    patchTargetNamespace(services, WSDLConstants.SERVICE);
}

/**
 * Iterates over the WSDL components in the list and updates their QName. Uses
 * the component type to determine what type of object is in the list.

```

```

*
* @param componentsList a list with WSDLElements: messages, port types, bindings or port types.
* @param componentType the associated component type as defined in { @link WSDLConstants }
*/
private void patchTargetNamespace(EList componentsList, int componentType)
{
    Iterator componentsIterator = componentsList.iterator();
    while (componentsIterator.hasNext())
    {
        WSDLElement wsdlElement = (WSDLElement)componentsIterator.next();
        Definition enclosingDefinition = wsdlElement.getEnclosingDefinition();
        if (enclosingDefinition != null)
        {
            String targetNamespace = enclosingDefinition.getTargetNamespace();

            QName componentQName = getQNameForWSDLElement(componentType, wsdlElement);

            if (componentQName != null)
            {
                String localPart = componentQName.getLocalPart();
                QName newComponentQName = new QName(targetNamespace, localPart);
                setQNameForWSDLElement(componentType, wsdlElement, newComponentQName);
            }
        }
    }
}

/**
* Updates the QName for the given component and component type.
* @param type the component type. See { @link WSDLConstants }.
* @param wsdlElement the target WSDL element.
* @param qName the new component { @link QName }.
*/
private void setQNameForWSDLElement(int type, WSDLElement wsdlElement, QName qName)
{
    switch (type)
    {
        case WSDLConstants.MESSAGE:
            ((Message)wsdlElement).setQName(qName);
            break;
        case WSDLConstants.PORT_TYPE:
            ((PortType)wsdlElement).setQName(qName);
            break;
        case WSDLConstants.BINDING:
            ((Binding)wsdlElement).setQName(qName);
            break;
        case WSDLConstants.SERVICE:
            ((Service)wsdlElement).setQName(qName);
    }
}

```



```

        break;
    }
}
} //DefinitionImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.ListIterator;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.common.util.BasicEList;
import org.eclipse.emf.common.util.EList;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EObject;
import org.eclipse.emf.ecore.EReference;
import org.eclipse.emf.ecore.EStructuralFeature;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.emf.ecore.impl.EObjectImpl;
import org.eclipse.emf.ecore.util.EContentsEList;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.Namespace;
import org.eclipse.wst.wsdl.WSDL_Element;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.eclipse.xsd.util.XSDConstants;
import org.w3c.dom.Attr;
import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.w3c.dom.Node;
import org.w3c.dom.Text;

```

```

import com.ibm.icu.util.StringTokenizer;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Element</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{@link org.eclipse.wst.wsdl.internal.impl.WSDLElementImpl#getDocumentationElement
 <em>Documentation Element</em>}</li>
 * <li>{@link org.eclipse.wst.wsdl.internal.impl.WSDLElementImpl#getElement <em>Element</em>}</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public abstract class WSDLElementImpl extends EObjectImpl implements WSDLElement
{
/**
 * The default value of the '{ @link #getDocumentationElement() <em>Documentation Element</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getDocumentationElement()
 * @generated
 * @ordered
 */
protected static final Element DOCUMENTATION_ELEMENT_EDEFAULT = null;

/**
 * The cached value of the '{ @link #getDocumentationElement() <em>Documentation Element</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getDocumentationElement()
 * @generated
 * @ordered
 */
protected Element documentationElement = DOCUMENTATION_ELEMENT_EDEFAULT;

/**
 * The default value of the '{ @link #getElement() <em>Element</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getElement()
 * @generated
 * @ordered
 */

```

```

*/
protected static final Element ELEMENT_EDEFAULT = null;

/**
 * The cached value of the '{@link #getElement() <em>Element</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getElement()
 * @generated
 * @ordered
 */
protected Element element = ELEMENT_EDEFAULT;

protected boolean isReconciling = false;

protected boolean updatingDOM = false;

protected EList wsdlContents;

private Definition enclosingDefinition;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected WSDLElementImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.WSDL_ELEMENT;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Element getDocumentationElement()
{

```

```

    return documentationElement;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setDocumentationElement(Element newDocumentationElement)
{
    Element oldDocumentationElement = documentationElement;
    documentationElement = newDocumentationElement;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(
            this,
            Notification.SET,
            WSDLPackage.WSDL_ELEMENT__DOCUMENTATION_ELEMENT,
            oldDocumentationElement,
            documentationElement));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Element getElement()
{
    return element;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setElementGen(Element newElement)
{
    Element oldElement = element;
    element = newElement;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.WSDL_ELEMENT__ELEMENT,
            oldElement, element));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated NOT
*/
public void setEnclosingDefinition(Definition definition)
{
    enclosingDefinition = definition;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.WSDL_ELEMENT__DOCUMENTATION_ELEMENT:
            return getDocumentationElement();
        case WSDLPackage.WSDL_ELEMENT__ELEMENT:
            return getElement();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.WSDL_ELEMENT__DOCUMENTATION_ELEMENT:
            setDocumentationElement((Element)newValue);
            return;
        case WSDLPackage.WSDL_ELEMENT__ELEMENT:
            setElement((Element)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public void eUnset(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.WSDL_ELEMENT__DOCUMENTATION_ELEMENT:
            setDocumentationElement(DOCUMENTATION_ELEMENT_EDEFAULT);
            return;
        case WSDLPackage.WSDL_ELEMENT__ELEMENT:
            setElement(ELEMENT_EDEFAULT);
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.WSDL_ELEMENT__DOCUMENTATION_ELEMENT:
            return DOCUMENTATION_ELEMENT_EDEFAULT == null
                ? documentationElement != null :
!DOCUMENTATION_ELEMENT_EDEFAULT.equals(documentationElement);
        case WSDLPackage.WSDL_ELEMENT__ELEMENT:
            return ELEMENT_EDEFAULT == null ? element != null : !ELEMENT_EDEFAULT.equals(element);
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (documentationElement: "); //$NON-NLS-1$
    result.append(documentationElement);
    result.append(", element: "); //$NON-NLS-1$
    result.append(element);
}

```

```

    result.append('');
    return result.toString();
}

//
// Reconciliation methods: DOM -> Model
//

public static class WSDLContentsEList extends EContentsEList
{
    WSDLContentsEList(EObject eObject, EStructuralFeature[] eStructuralFeatures)
    {
        super(eObject, eStructuralFeatures);
    }

    protected ListIterator newListIterator()
    {
        return new FeatureIteratorImpl(eObject, eStructuralFeatures);
    }

    protected boolean isIncluded(EStructuralFeature eStructuralFeature)
    {
        EReference eReference = (EReference)eStructuralFeature;
        return !eReference.isTransient();
    }

    public List basicList()
    {
        return new WSDLContentsEList(eObject, eStructuralFeatures);
    }

    public Iterator basicIterator()
    {
        return new FeatureIteratorImpl(eObject, eStructuralFeatures);
    }

    public static class FeatureIteratorImpl extends EContentsEList.FeatureIteratorImpl
    {
        public FeatureIteratorImpl(EObject eObject)
        {
            super(eObject, (EStructuralFeature[])((BasicEList)eObject.eClass().getEAllReferences()).data());
        }

        public FeatureIteratorImpl(EObject eObject, EStructuralFeature[] eStructuralFeatures)
        {
            super(eObject, eStructuralFeatures);
        }
    }
}

```

```

protected boolean isIncluded(EStructuralFeature eStructuralFeature)
{
    EReference eReference = (EReference)eStructuralFeature;
    return !eReference.isTransient();
}
}

public EList getWSDLContents()
{
    if (wsdlContents == null)
    {
        wsdlContents = new WSDLContentsEList(this,
(EStructuralFeature[])((BasicEList)eClass().getEAllContainments()).data());
    }

    return wsdlContents;
}

public void setElement(Element element)
{
    if (element == null)
    {
        isReconciling = true;
        setElementGen(null);
        for (Iterator contents = getWSDLContents().iterator(); contents.hasNext();)
        {
            Object obj = contents.next();
            if (obj instanceof WSDLElementImpl)
            {
                WSDLElementImpl content = (WSDLElementImpl)obj;
                content.setElement(null);
            }
        }
        isReconciling = false;
    }
    else
    {
        setElementGen(element);
    }
}

public boolean eNotificationRequired()
{
    return true;
}

public void eNotify(Notification msg)

```



```

{
int eventType = msg.getEventType();
Object feature = msg.getFeature();
Object oldValue = msg.getOldValue();
Object newValue = msg.getNewValue();

if (eClass().getEAllReferences().contains(feature))
{
EReference eReference = (EReference)feature;
if (eReference.isContainment() && !eReference.isTransient())
{
switch (eventType)
{
case Notification.ADD:
{
adoptContent(eReference, newValue);
break;
}
case Notification.ADD_MANY:
{
for (Iterator newValues = ((Collection)newValue).iterator(); newValues.hasNext();)
{
WSDLElement wsdlElement = (WSDLElement)newValues.next();
adoptContent(eReference, wsdlElement);
}
break;
}
case Notification.REMOVE:
{
if (oldValue != null)
{
orphanContent(eReference, /*(WSDLElement)*/oldValue);
}
break;
}
case Notification.REMOVE_MANY:
{
for (Iterator oldValues = ((Collection)oldValue).iterator(); oldValues.hasNext();)
{
EObject object = (EObject)oldValues.next();
orphanContent(eReference, object);
}
break;
}
case Notification.MOVE:
{
moveContent(eReference, (WSDLElement)newValue);
break;
}
}
}
}

```

```

    }
    case Notification.SET:
    case Notification.UNSET:
    {
        if (oldValue != null)
        {
            orphanContent(eReference, oldValue);
        }
        if (newValue != null)
        {
            adoptContent(eReference, newValue);
        }
        break;
    }
}
else
{
    switch (eventType)
    {
        case Notification.ADD:
        case Notification.ADD_MANY:
        case Notification.REMOVE:
        case Notification.REMOVE_MANY:
        case Notification.MOVE:
        case Notification.SET:
        case Notification.UNSET:
        {
            changeReference(eReference);
            break;
        }
    }
}
else if (eClass().getEAllAttributes().contains(feature))
{
    EAttribute eAttribute = (EAttribute)feature;
    switch (eventType)
    {
        case Notification.ADD:
        case Notification.ADD_MANY:
        case Notification.REMOVE:
        case Notification.REMOVE_MANY:
        case Notification.MOVE:
        case Notification.SET:
        case Notification.UNSET:
        {
            changeAttribute(eAttribute);

```

```

        break;
    }
}
super.eNotify(msg);
}

protected void orphanContent(EReference eReference, Object obj)
{
    if (!isReconciling)
    {
        Element parent = getElement();
        if (parent != null && obj != null && obj instanceof WSDLElement)
        {
            WSDLElement wsdlElement = (WSDLElement)obj;
            Element contentElement = wsdlElement.getElement();
            if (contentElement != null)
                niceRemoveChild(contentElement.getParentNode(), contentElement);
        }
        else
            ;//System.out.println("WSDLElement.orphanContent(), Object is: " + obj);
    }
}

protected void niceRemoveChild(Node parent, Node child)
{
    if (isReconciling)
    {
        // System.out.println("**** cyclic dom writeback avoided " + eClass().getName());
        return;
    }
    forceNiceRemoveChild(parent, child);
}

public void forceNiceRemoveChild(Node parent, Node child)
{
    updatingDOM = true;

    boolean done = false;

    // System.out.println("?*");
    Node previous = child.getPreviousSibling();
    if (previous != null && previous.getNodeType() == Node.TEXT_NODE)
    {
        Text text = (Text)previous;
        String data = text.getData();
        int index = data.lastIndexOf('\n');
        if (index != -1)

```

```

{
if (index - 1 > 0 && data.charAt(index - 1) == '\r')
{
//System.out.println("1*");
text.deleteData(index - 1, data.length() - index + 1);
}
else
{
//System.out.println("2*");
text.deleteData(index, data.length() - index);
}
done = true;
}
else
{
//System.out.println("No return before!");
}
}
else
{
// System.out.println("No text node before!");
}

if (!done)
{
for (Node next = child.getNextSibling(); next != null; next = next.getNextSibling())
{
if (next.getNodeType() == Node.TEXT_NODE)
{
Text text = (Text)next;
String data = text.getData();
/*
System.out.print("xx " + data.length() + " :: ");
for (int i = 0; i < data.length(); ++i)
{
System.out.print(" " + Integer.toHexString((int)data.charAt(i)));
}
System.out.println();
*/

int index = data.indexOf('\n');
if (index != -1)
{
if (index + 1 < data.length() && data.charAt(index + 1) == '\r')
{
// System.out.println("3*");
text.deleteData(0, index + 2);
}
}
}
}

```

```

        else
        {
            //System.out.println("4*");
            text.deleteData(0, index + 1);
        }
        break;
    }
    else
    {
        // System.out.println("No return after!");
    }
}
else if (next.getNodeType() == Node.ELEMENT_NODE)
{
    break;
}
}
}

// System.out.println("Removing from-----\n  " + parent);
// System.out.println("Removing-----\n  " + child);
if (parent != null)
    parent.removeChild(child);

updatingDOM = false;
}

protected void moveContent(EReference eReference, WSDLElement wsdlElement)
{
    if (isReconciling)
    {
        // System.out.println("**** cyclic dom writeback avoided " + eClass().getName());
        return;
    }
    //System.out.println("moving " + xsdConcreteComponent);
    Node parent = getAdoptionParentNode(eReference);
    if (parent != null)
    {
        Element child = wsdlElement.getElement();
        if (child != null)
        {
            List contents = getWSDLContents();
            int index = contents.indexOf(wsdlElement);
            niceRemoveChild(parent, child);
            niceInsertBefore(parent, child, ++index == contents.size() ? null :
((WSDLElement)contents.get(index)).getElement());
        }
    }
}

```

```

//System.out.println("moved " + xsdConcreteComponent);

}

protected void adoptContent(EReference eReference, Object object)
{
    if (object instanceof WSDLElement)
    {
        WSDLElement wsdlElement = (WSDLElement)object;
        if (isReconciling)
        {
            {
                if (wsdlElement.getElement() != null)
                {
                    ((WSDLElementImpl)wsdlElement).elementChanged(wsdlElement.getElement());
                }
            }
        }
        else
        {
            Element childElement = wsdlElement.getElement();
            if (getElement() != null && (childElement == null || childElement.getParentNode() == null))
            {
                {
                    if (childElement != null && childElement.getOwnerDocument() != getElement().getOwnerDocument())
                    {
                        {
                            wsdlElement.setElement(null);
                            childElement = null;
                        }
                    }
                }

                handleElementForAdopt(eReference, wsdlElement);
                ((WSDLElementImpl)wsdlElement).updateElement();
            }
        }
    }

    Definition definition = getEnclosingDefinition();
    if (definition != null)
    {
        {
            ((WSDLElementImpl)wsdlElement).adoptBy(definition);
        }
    }
    else if (object instanceof Namespace)
    {
        {
            // Add a namespace attribute to the Definitions element.
            Namespace ns = (Namespace)object;
            Node adoptionParent = getAdoptionParentNode(eReference); // Definitions node
            // KB: Assumption - The prefix is unique if we are here (by the Definitions model).
            if (adoptionParent != null)
            {
                {
                    ((Element)adoptionParent).setAttribute("xmlns:" + ns.getPrefix(), ns.getURI());
                }
            }
        }
    }
}

```

```

    }
}

protected Node getAdoptionParentNode(EReference eReference)
{
    return getElement();
}

protected void handleElementForAdopt(EReference eReference, WSDLElement wsdlElement)
{
    // Establish DOM parent-child relationship

    Node adoptionParent = getAdoptionParentNode(eReference);
    Element childElement = wsdlElement.getElement();
    Element referencedElement = null;

    for (Iterator contents = getWSDLContents().iterator(); contents.hasNext();)
    {
        if (contents.next() == wsdlElement)
        {
            if (contents.hasNext())
            {
                Object next = contents.next();
                if (next instanceof WSDLElement)
                {
                    referencedElement = ((WSDLElement)next).getElement();
                    while (referencedElement != null)
                    {
                        Node parent = referencedElement.getParentNode();
                        if (parent == null)
                        {
                            referencedElement = null;
                            break;
                        }
                        else if (parent == adoptionParent)
                        {
                            break;
                        }
                        else if (parent.getNodeType() == Node.ELEMENT_NODE)
                        {
                            referencedElement = (Element)parent;
                        }
                    }
                    else
                    {
                        break;
                    }
                }
            }
        }
    }
}

```

```

    }
    break;
}
}

if (childElement == null)
{
    ((WSDLElementImpl)wsdlElement).isReconciling = true;
    childElement = ((WSDLElementImpl)wsdlElement).createElement();
    ((WSDLElementImpl)wsdlElement).isReconciling = false;
    if (childElement == null)
    {
        //System.out.println("not created! " + wsdlElement);
        return;
    }
}

boolean isAttached = false;
for (Node rootDocument = childElement; rootDocument != null; rootDocument = rootDocument.getParentNode())
{
    if (WSDLConstants.nodeType(rootDocument) == WSDLConstants.DEFINITION)
    {
        isAttached = true;
        break;
    }
}

if (!isAttached)
{
    // If we're dealing with a documentation element we need to put it first in the list

    if (referencedElement == null && WSDLConstants.nodeType(childElement) ==
WSDLConstants.DOCUMENTATION && !eReference.isMany())
    {
        // Here we find the first element node in the list, the documentation element needs to go before this element

        for (Node child = adoptionParent.getFirstChild(); child != null; child = child.getNextSibling())
        {
            if (child.getNodeType() == Node.ELEMENT_NODE)
            {
                referencedElement = (Element)child;
                break;
            }
        }
    }
    //referencedElement = computeTopLevelRefChild(adoptionParent,childElement);
    niceInsertBefore(adoptionParent, childElement, referencedElement);
}

```



```

}

public void niceInsertBefore(Node parent, Node newChild, Node referenceChild)
{
    if (isReconciling)
    {
        // System.out.println("**** cyclic dom writeback avoided " + eClass().getName());
        return;
    }

    forceNiceInsertBefore(parent, newChild, referenceChild);
}

public void forceNiceInsertBefore(Node parent, Node newChild, Node referenceChild)
{
    updatingDOM = true;

    LOOP: for (Node child = referenceChild == null ? parent.getLastChild() : referenceChild.getPreviousSibling();
    child != null; child = child.getPreviousSibling())
    {
        switch (child.getNodeType())
        {
            case Node.TEXT_NODE:
            {
                Text text = (Text)child;
                String data = text.getData();

                /*
                System.out.print("xx " + data.length() + ":: ");
                for (int i = 0; i < data.length(); ++i)
                {
                    System.out.print(" " + Integer.toHexString((int)data.charAt(i)));
                }
                System.out.println();
                */

                int index = data.lastIndexOf('\n');
                if (index != -1)
                {
                    // System.out.println("In here");

                    StringBuffer indent = new StringBuffer();
                    for (Node ancestor = parent.getParentNode(); ancestor != null && ancestor.getNodeType() !=
Node.DOCUMENT_NODE; ancestor = ancestor.getParentNode())
                    {
                        indent.append(" ");
                    }
                }
            }
        }
    }
}

```

```

        if (index + 1 < data.length() && data.charAt(index + 1) == '\r')
        {
            ++index;
        }
        text.replaceData(index + 1, data.length() - index - 1, indent + " ");

        // setCorrectIndentation(indent, newText);
        if (referenceChild != null)
        {
            indent.append(" ");
        }
        Text newText = parent.getOwnerDocument().createTextNode("\n" + indent);
        // System.out.println("Inserted..." + newText);
        parent.insertBefore(newText, referenceChild);
        referenceChild = newText;
        break LOOP;
    }

    break;
}
case Node.ELEMENT_NODE:
{
    break LOOP;
}
}
}

// System.out.println("Inserted..." + newChild);
parent.insertBefore(newChild, referenceChild);

updatingDOM = false;
}

protected Element computeTopLevelRefChild(Node parentNode, Node nodeToAdd)
{
    Element result = null;
    int a = getPrecedence(nodeToAdd);

    for (Node node = parentNode.getFirstChild(); node != null; node = node.getNextSibling())
    {
        if (node.getNodeType() == Node.ELEMENT_NODE)
        {
            int b = getPrecedence(node);
            if (b >= a)
            {
                result = (Element)node;
                break;
            }
        }
    }
}

```

```

    }
    }
    return result;
}

private HashMap precedenceMap = createPrecedenceMap();

private int getPrecedence(Node node)
{
    int result = 2;
    String localName = node.getLocalName();
    if (localName != null)
    {
        Integer integer = (Integer)precedenceMap.get(localName);
        if (integer != null)
        {
            result = integer.intValue();
        }
    }
    return result;
}

private HashMap createPrecedenceMap()
{
    HashMap hashMap = new HashMap();
    hashMap.put(WSDLConstants.DOCUMENTATION_ELEMENT_TAG, new Integer(1));
    hashMap.put(WSDLConstants.IMPORT_ELEMENT_TAG, new Integer(3));
    hashMap.put(WSDLConstants.TYPES_ELEMENT_TAG, new Integer(4));
    hashMap.put(WSDLConstants.MESSAGE_ELEMENT_TAG, new Integer(5));
    hashMap.put(WSDLConstants.PORT_TYPE_ELEMENT_TAG, new Integer(6));
    hashMap.put(WSDLConstants.BINDING_ELEMENT_TAG, new Integer(7));
    hashMap.put(WSDLConstants.SERVICE_ELEMENT_TAG, new Integer(8));
    return hashMap;
}

protected void adoptBy(Definition definition)
{
    for (Iterator components = getWSDLContents().iterator(); components.hasNext();)
    {
        Object child = components.next();
        if (child instanceof WSDLElementImpl)
        {
            ((WSDLElementImpl)child).adoptBy(definition);
        }
    }
}

protected boolean isUpdatingDOM()

```

```

{
    return updatingDOM;
}

public void elementChanged(Element changedElement)
{
    if (!isUpdatingDOM())
    {
        if (!isReconciling)
        {
            //System.out.println("**** changeFor " + eClass().getName());
            isReconciling = true;
            reconcile(changedElement);

            WSDLElement theContainer = getContainer();
            if (theContainer != null && theContainer.getElement() == changedElement)
            {
                ((WSDLElementImpl)theContainer).elementChanged(changedElement);
            }

            isReconciling = false;
            traverseToRootForPatching();
        }
        else
        {
            ;//System.out.println("**** cyclic internal reconcile avoided " + eClass().getName());
        }
    }
    else
    {
        ;//System.out.println("**** cyclic DOM reconcile avoided " + eClass().getName());
    }
}

protected void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
}

protected void handleReconciliation(Collection remainingModelObjects)
{
}

/**
 * @deprecated
 * TODO... remove this method!
 */
public Collection getModelObjects(Object component)
{

```

```

    return getWSDLContents();
}

/*
protected Element getElementForModelObject(Object modelObject)
{
    Element result = null;
    if (modelObject instanceof Element)
    {
        result = (Element) modelObject;
    }
    else if (modelObject instanceof WSDLElement)
    {
        result = ((WSDLElement) modelObject).getElement();
    }
    return result;
}
*/

private Collection getContentNodes(Element changedElement)
{
    Collection result = new ArrayList();
    for (Node child = changedElement.getFirstChild(); child != null; child = child.getNextSibling())
    {
        if (child.getNodeType() == Node.ELEMENT_NODE)
        {
            result.add(child);
        }
    }
    return result;
}

// Some subclasses use this method
protected QName createQName(Definition definition, String prefixedName)
{
    // Delegate to the new form to preserve backward compatibility in case someone
    // else calls this method.

    return createQName(definition, prefixedName, null);
}

/**
 * Creates a QName from a prefixed name. Takes into account locally defined
 * namespace prefixes.
 *
 * @param definition
 *     the enclosing definition. Must not be null.
 * @param prefixedName

```

```

*     the prefixed name to convert to QName
* @param element
*     the enclosing element. May be null in which case the prefix is
*     only looked up among the ones defined at the definition level.
* @return the QName equivalent for the given prefixed name, or null if a
*     namespace prefix cannot be found for the given namespace URI or if
*     the prefixed name is null.
*/
protected QName createQName(Definition definition, String prefixedName, Element element)
{
    return createQName(definition, prefixedName, element, false);
}

/**
* Creates a QName from a prefixed name. Takes into account locally defined
* namespace prefixes. Selectively allows null namespace URIs.
*
* @param definition
*     the enclosing definition. Must not be null.
* @param prefixedName
*     the prefixed name to convert to QName
* @param element
*     the enclosing element. May be null in which case the prefix is
*     only looked up among the ones defined at the definition level.
* @param allowNullNamespaceURI if true and the prefixed name does not have
*     a prefix a QName is constructed and returned using
*     {@link XMLConstants#NULL_NS_URI} for the namespace URI
* @return the QName equivalent for the given prefixed name, or null if a
*     namespace prefix cannot be found for the given namespace URI or if
*     the prefixed name is null.
*/
protected QName createQName(Definition definition, String prefixedName, Element element, boolean
allowNullNamespaceURI)
{
    QName qname = null;
    if (prefixedName != null)
    {
        int index = prefixedName.indexOf(":"); ///$NON-NLS-1$
        String prefix = (index == -1) ? "" : prefixedName.substring(0, index); ///$NON-NLS-1$
        String namespace = definition.getNamespace(prefix);

        if (namespace == null && element != null)
        {
            // Try to find a locally defined namespace prefix.

            namespace = getNamespaceURIFromPrefix(element, prefix);
        }
    }
}

```

```

    if (namespace != null || (allowNullNamespaceURI && prefix.length() == 0))
    {
        String localPart = prefixedName.substring(index + 1);
        QName qname = new QName(namespace, localPart);
    }
}
return qname;
}

/**
 * Given a prefix and a node, finds the namespace URI pointed to by the
 * prefix. Walks the element containment hierarchy until it finds one or it
 * reaches the document root.
 *
 * @param node
 *     the starting node
 * @param prefix
 *     the prefix to find an xmlns:prefix=uri for
 *
 * @return the namespace URI or null if not found
 */
private static String getNamespaceURIFromPrefix(Node node, String prefix)
{
    if (node == null || prefix == null)
    {
        return null;
    }

    Node currentNode = node;

    while (currentNode != null && currentNode.getNodeType() == Node.ELEMENT_NODE)
    {
        String namespaceURI = getAttributeNS((Element)currentNode, XSDConstants.XMLNS_URI_2000, prefix);

        if (namespaceURI != null)
        {
            return namespaceURI;
        }
        else
        {
            currentNode = currentNode.getParentNode();
        }
    }

    return null;
}

/**

```

```

* Retrieves an attribute's value.
* @param element the containing element.
* @param namespaceURI the namespace URI.
* @param localPart the local name.
* @return the attribute's value if present, or null if not.
*/
private static String getAttributeNS(Element element, String namespaceURI, String localPart)
{
    String attributeValue = null;
    Attr attribute = element.getAttributeNodeNS(namespaceURI, localPart);

    if (attribute != null)
    {
        attributeValue = attribute.getValue();
    }

    return attributeValue;
}

//
// For reconciliation: Model -> DOM
//

public void updateElement(boolean deep)
{
    if (deep || getElement() == null)
    {
        updateElement();
    }
    else
    {
        changeAttribute(null);
        changeReference(null);
    }
}

public void updateElement()
{
    if (getElement() == null)
    {
        isReconciling = true;
        createElement();
        isReconciling = false;
    }

    changeAttribute(null);
    changeReference(null);
}

```



```

Object obj = null;
for (Iterator containments = eClass().getEAllContainments().iterator(); containments.hasNext();)
{
    EReference eReference = (EReference)containments.next();
    if (eReference == WSDLPackage.Literals.XSD_SCHEMA_EXTENSIBILITY_ELEMENT__SCHEMA)
    {
        // TBD - This is an instance of XSDSchemaExtensibilityElement and
        // eReference is XSDSchema. What do we want to do for update?
    }
    else if (!eReference.isTransient())
    {
        if (eReference.isMany())
        {
            for (Iterator objects = ((Collection)eGet(eReference)).iterator(); objects.hasNext();)
            {
                obj = objects.next();
                if (!(obj instanceof WSDLElement) || obj == null)
                {
                    // Skip it. Probably this is Namespace.
                }
                else
                {
                    WSDLElement wsdlElement = (WSDLElement)obj;
                    //handleElementForAdopt(eReference, wsdlElement);
                    ((WSDLElementImpl)wsdlElement).updateElement();
                }
            }
        }
        else
        {
            WSDLElement wsdlElement = (WSDLElement)eGet(eReference);
            if (wsdlElement != null)
            {
                //handleElementForAdopt(eReference, wsdlElement);
                ((WSDLElementImpl)wsdlElement).updateElement();
            }
        }
    } // end else if
} // end for
}

```

```

protected void changeAttribute(EAttribute eAttribute)
{
    if (eAttribute == WSDLPackage.Literals.WSDL_ELEMENT__ELEMENT)
    {
        Element theElement = getElement();
        if (theElement != null && !isReconciling)
        {

```

```

    for (Node rootDocument = theElement.getParentNode(); rootDocument != null; rootDocument =
rootDocument.getParentNode())
    {
        if (rootDocument.getNodeType() == Node.DOCUMENT_NODE)
        {
            isReconciling = true;
            if (getEnclosingDefinition() == null)
            {
                reconcileAttributes(getElement());
                isReconciling = false;
            }
            else
            {
                reconcile(getElement());
                isReconciling = false;
                traverseToRootForPatching();
            }
            break;
        }
    }
}

protected void traverseToRootForPatching()
{
    if (!isReconciling)
    {
        WSDLElementImpl container = (WSDLElementImpl)getContainer();
        if (container != null)
        {
            container.traverseToRootForPatching();
        }
    }
}

protected void reconcile(Element changedElement)
{
    reconcileAttributes(changedElement);
    reconcileContents(changedElement);
}

protected void reconcileAttributes(Element changedElement)
{
}

protected void reconcileContents(Element changedElement)

```

```

{
    List remainingModelObjects = new ArrayList(getWSDLContents());

    Collection contentNodes = getContentNodes(changedElement);

    Element theDocumentationElement = null;

    // for each applicable child node of changedElement
    LOOP: for (Iterator i = contentNodes.iterator(); i.hasNext();)
    {
        Element child = (Element)i.next();
        // Set Documentation element if exists
        if (WSDLConstants.DOCUMENTATION_ELEMENT_TAG.equals(child.getLocalName())
            && WSDLConstants.isMatchingNamespace(child.getNamespaceURI(),
WSDLConstants.WSDL_NAMESPACE_URI))
        {
            // assume the first 'documentation' element is 'the' documentation element
            // 'there can be only one!'
            if (theDocumentationElement == null)
            {
                theDocumentationElement = child;
            }
        }
        // go thru the model objects to collect matching object for reuse
        for (Iterator contents = remainingModelObjects.iterator(); contents.hasNext();)
        {
            Object modelObject = (Object)contents.next();

            if (modelObject instanceof WSDLElement)
            {
                if (((WSDLElement)modelObject).getElement() == child)
                {
                    contents.remove(); // removes the 'child' Node from the remainingModelObjects list
                    continue LOOP;
                }
            }
        }

        // if the documentation element has changed... update it
        //
        if (theDocumentationElement != getDocumentationElement())
        {
            setDocumentationElement(theDocumentationElement);
        }

        // we haven't found a matching model object for the Node, se we may need to
        // create a new model object
        handleUnreconciledElement(child, remainingModelObjects);
    }
}

```

```

    }

    // now we can remove the remaining model objects
    handleReconciliation(remainingModelObjects);

}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public Definition getEnclosingDefinition()
{
    if (enclosingDefinition != null)
        return enclosingDefinition;

    // TBD - Revisit
    //EObject c = eContaier(); c != null; c = c.eContainter()
    //{

    for (WSDLElement container = this; container != null; container =
((WSDLElementImpl)container).getContainer())
    {
        if (container instanceof Definition)
        {
            enclosingDefinition = (Definition)container;
            return enclosingDefinition;
        }
    }

    return null;
}

/**
public Definition getRootEnclosingDefinition()
{
    if (enclosingDefinition == null)
    {
        Resource resource = eResource();
        List contents = resource.getContents();
        if (contents.size() == 1
        && contents.get(0) instanceof Definition)
            enclosingDefinition = (Definition)contents.get(0);
    }
    return enclosingDefinition;
}
*/

```

```

public WSDLElement getContainer()
{
    return eContainer() instanceof WSDLElement ? (WSDLElement)eContainer() : null;
}

protected void niceSetAttribute(Element element, String attribute, String value)
{
    if (isReconciling)
    {
        //System.out.println("**** cyclic dom attribute writeback avoided " + eClass().getName());
        return;
    }

    if (value == null)
    {
        if (element.hasAttributeNS(null, attribute))
        {
            updatingDOM = true;
            element.removeAttribute(attribute);
            updatingDOM = false;
        }
    }
    else if (!element.hasAttributeNS(null, attribute) || !element.getAttributeNS(null, attribute).equals(value))
    {
        updatingDOM = true;
        element.setAttributeNS(null, attribute, value);
        updatingDOM = false;
    }
}

protected String niceCreateNamespaceAttribute(String namespace)
{
    // Create and return a unique prefix for "namespace."
    return null;
}

protected void niceSetAttributeURIValue(Element element, String attribute, String uriList)
{
    if (isReconciling)
    {
        // System.out.println("**** cyclic dom attribute writeback avoided " + eClass().getName());
        return;
    }

    if (uriList == null)
    {
        updatingDOM = true;
    }
}

```

```

element.removeAttribute(attribute);
updatingDOM = false;
}
else
{
StringBuffer value = new StringBuffer();
for (StringTokenizer stringTokenizer = new StringTokenizer(uriList, " "); stringTokenizer.hasMoreElements();)
{
String uri = stringTokenizer.nextToken();
String namespace = null;
String localName = uri;
int index = uri.lastIndexOf("#");
if (index != -1)
{
if (index > 0)
{
namespace = uri.substring(0, index);
}
localName = uri.substring(index + 1);
}
String qualifier = XSDConstants.lookupQualifier(element, namespace);
if (qualifier == null)
{
qualifier = niceCreateNamespaceAttribute(namespace);
}

String qName = qualifier == null || qualifier.length() == 0 ? localName : qualifier + ":" + localName;

if (value.length() != 0)
{
value.append(' ');
}
value.append(qName);
}

if (!element.hasAttributeNS(null, attribute) || !element.getAttributeNS(null, attribute).equals(value.toString()))
{
updatingDOM = true;
element.setAttributeNS(null, attribute, value.toString());
updatingDOM = false;
}
}
}

protected void changeReference(EReference eReference)
{
}
}

```

```

protected Element createElement() // Should I make this abstract?
{
    return null;
}

protected final Element createElement(int nodeType)
{
    Definition definition = null;
    if (this instanceof Definition)
        definition = (Definition)this;
    else
        definition = getEnclosingDefinition();

    if (definition == null)
        return null;

    Document document = definition.getDocument();
    if (document == null)
        document = ((DefinitionImpl)definition).updateDocument();

    // Retrieve the namespace prefix for the WSDL namespace
    String wsdlNamespace = WSDLConstants.WSDL_NAMESPACE_URI;
    String qualifier = definition.getPrefix(wsdlNamespace);

    Element newElement = document.createElementNS(wsdlNamespace, (qualifier == null ? "" : qualifier + ":")
        + WSDLConstants.getElementTag(nodeType));

    if (document.getDocumentElement() == null)
        document.appendChild(newElement);

    if (getDocumentationElement() != null)
        newElement.appendChild(document.importNode(getDocumentationElement(), true));

    return newElement;
}

public void reconcileReferences(boolean deep)
{
    if (deep)
    {
        for (Iterator contents = getWSDLContents().iterator(); contents.hasNext();)
        {
            Object content = contents.next();
            if (content instanceof WSDLElementImpl)
            {
                WSDLElementImpl element = (WSDLElementImpl)content;
                element.isReconciling = true;
                element.reconcileReferences(true);
            }
        }
    }
}

```

```

        element.isReconciling = false;
    }
}
}

public WSDLElement getBestWSDLElement(List elementPath)
{
    WSDLElement result = this;
    for (Iterator components = getWSDLContents().iterator(); components.hasNext();)
    {
        Object object = components.next();
        if (object instanceof WSDLElementImpl)
        {
            WSDLElementImpl childWSDLElement = (WSDLElementImpl)object;

            if (elementPath.contains(childWSDLElement.getElement()))
            {
                result = childWSDLElement;
                WSDLElement betterWSDLElement = childWSDLElement.getBestWSDLElement(elementPath);
                if (betterWSDLElement != null)
                {
                    result = betterWSDLElement;
                }

                if (!considerAllContainsForBestWSDLElement())
                {
                    break;
                }
            }
        }
    }

    return result;
}

protected boolean considerAllContainsForBestWSDLElement()
{
    return false;
}

public void elementAttributesChanged(Element changedElement)
{
    if (!isUpdatingDOM())
    {
        if (!isReconciling)
        {
            // System.out.println("**** changeFor " + eClass().getName());
        }
    }
}

```



```

isReconciling = true;
reconcileAttributes(changedElement);

WSDLElementImpl theContainer = (WSDLElementImpl)getContainer();
if (theContainer != null && theContainer.getElement() == changedElement)
{
    theContainer.elementAttributesChanged(changedElement);
}

isReconciling = false;
traverseToRootForPatching();
}
else
{
    // System.out.println("**** cyclic internal reconcile avoided " + eClass().getName());
}
}
else
{
    // System.out.println("**** cyclic DOM reconcile avoided " + eClass().getName());
}
}

public void elementContentsChanged(Element changedElement)
{
    if (!isUpdatingDOM())
    {
        if (!isReconciling)
        {
            // System.out.println("**** changeFor " + eClass().getName());

            isReconciling = true;
            reconcileContents(changedElement);

            WSDLElementImpl theContainer = (WSDLElementImpl)getContainer();
            if (theContainer != null && theContainer.getElement() == changedElement)
            {
                theContainer.elementContentsChanged(changedElement);
            }

            isReconciling = false;
            traverseToRootForPatching();
        }
        else
        {
            // System.out.println("**** cyclic internal reconcile avoided " + eClass().getName());
        }
    }
}

```

```

    }
    else
    {
        // System.out.println("**** cyclic DOM reconcile avoided " + eClass().getName());
    }
}

protected void updatePrefix(Node node, String namespace, String oldPrefix, String newPrefix)
{
    if ((namespace == null ? node.getNamespaceURI() == null : namespace.equals(node.getNamespaceURI()))
        && (oldPrefix == null ? node.getPrefix() == null : oldPrefix.equals(node.getPrefix())))
    {
        node.setPrefix(newPrefix);
    }

    for (Node child = node.getFirstChild(); child != null; child = child.getNextSibling())
    {
        updatePrefix(child, namespace, oldPrefix, newPrefix);
    }
}

protected String getNamespace(Element element)
{
    String name = element.getTagName();
    int index = name.indexOf(":"); //$NON-NLS-1$
    String nsPrefix = null;
    if (index != -1)
    {
        nsPrefix = name.substring(0, index);
    }
    else
    {
        nsPrefix = "xmlns"; //$NON-NLS-1$
    }

    String namespaceURI = null;

    // First try to locate the namespace URI in the definition's prefix to namespace map.
    // This will provide backward compatibility for existing clients.

    Definition enclosingDefinition = getEnclosingDefinition();
    if (enclosingDefinition != null)
    {
        namespaceURI = enclosingDefinition.getNamespace(nsPrefix);
    }

    // We did not find it at the top level, try to find a locally defined namespace prefix.

```

```

    if (namespaceURI == null)
    {
        namespaceURI = getNamespaceURIFromPrefix(element, nsPrefix);
    }

    return namespaceURI;
}

protected String getLocalName(Element element)
{
    String name = element.getTagName();
    int index = name.indexOf(":");
    if (index == -1)
        return name;
    else
        return name.substring(index + 1);
}

} //WSDLElementImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

import java.util.Collection;

import javax.xml.namespace.QName;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.EReference;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsdl.Definition;
import org.eclipse.wst.wsdl.Message;
import org.eclipse.wst.wsdl.MessageReference;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

```

```

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Message Reference</b></em>'.
 * <!-- end-user-doc -->
 * <p>
 * The following features are implemented:
 * <ul>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.MessageReferenceImpl#getName <em>Name</em> }</li>
 * <li>{ @link org.eclipse.wst.wsdl.internal.impl.MessageReferenceImpl#getMessage
 * <em>EMessage</em> }</li>
 * </ul>
 * </p>
 *
 * @generated
 */
public abstract class MessageReferenceImpl extends ExtensibleElementImpl implements MessageReference
{
/**
 * The default value of the '{ @link #getName() <em>Name</em> }' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getName()
 * @generated
 * @ordered
 */
protected static final String NAME_EDEFAULT = null;

/**
 * The cached value of the '{ @link #getName() <em>Name</em> }' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getName()
 * @generated
 * @ordered
 */
protected String name = NAME_EDEFAULT;

/**
 * The cached value of the '{ @link #getMessage() <em>EMessage</em> }' reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getMessage()
 * @generated
 * @ordered
 */
protected Message eMessage;

```

```

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected MessageReferenceImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.MESSAGE_REFERENCE;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getName()
{
    return name;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setName(String newName)
{
    String oldName = name;
    name = newName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.MESSAGE_REFERENCE__NAME,
oldName, name));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated
*/
public Message getEMessage()
{
    if (eMessage != null && eMessage.eIsProxy())
    {
        InternalEObject oldEMessage = (InternalEObject)eMessage;
        eMessage = (Message)eResolveProxy(oldEMessage);
        if (eMessage != oldEMessage)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE,
WSDLPackage.MESSAGE_REFERENCE__EMESSAGE, oldEMessage, eMessage));
        }
    }
    return eMessage;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Message basicGetEMessage()
{
    return eMessage;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setEMessage(Message newEMessage)
{
    Message oldEMessage = eMessage;
    eMessage = newEMessage;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET,
WSDLPackage.MESSAGE_REFERENCE__EMESSAGE, oldEMessage, eMessage));
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)

```

```

{
switch (featureID)
{
case WSDLPackage.MESSAGE_REFERENCE__NAME:
return getName();
case WSDLPackage.MESSAGE_REFERENCE__EMESSAGE:
if (resolve)
return getEMessage();
return basicGetEMessage();
}
return super.eGet(featureID, resolve, coreType);
}

```

```
/**
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @generated
```

```
*/
```

```
public void eSet(int featureID, Object newValue)
```

```

{
switch (featureID)
{
case WSDLPackage.MESSAGE_REFERENCE__NAME:
setName((String)newValue);
return;
case WSDLPackage.MESSAGE_REFERENCE__EMESSAGE:
setEMessage((Message)newValue);
return;
}
super.eSet(featureID, newValue);
}

```

```
/**
```

```
* <!-- begin-user-doc -->
```

```
* <!-- end-user-doc -->
```

```
* @generated
```

```
*/
```

```
public void eUnset(int featureID)
```

```

{
switch (featureID)
{
case WSDLPackage.MESSAGE_REFERENCE__NAME:
setName(NAME_EDEFAULT);
return;
case WSDLPackage.MESSAGE_REFERENCE__EMESSAGE:
setEMessage((Message)null);
return;
}
}

```

```

    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.MESSAGE_REFERENCE__NAME:
            return NAME_EDEFAULT == null ? name != null : !NAME_EDEFAULT.equals(name);
        case WSDLPackage.MESSAGE_REFERENCE__EMESSAGE:
            return eMessage != null;
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (name: "); //$NON-NLS-1$
    result.append(name);
    result.append(')');
    return result.toString();
}

//
// Reconciliation methods
//

public void reconcileAttributes(Element changedElement)
{
    setName(WSDLConstants.getAttribute(changedElement, WSDLConstants.NAME_ATTRIBUTE));
    reconcileReferences(false);
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)

```



```

{
    super.handleUnreconciledElement(child, remainingModelObjects);
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    super.changeAttribute(eAttribute);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eAttribute == null || eAttribute == WSDLPackage.Literals.MESSAGE_REFERENCE__NAME)
            niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getName());
    }
}

protected void changeReference(EReference eReference)
{
    if (isReconciling)
        return;

    super.changeReference(eReference);
    Element theElement = getElement();
    if (theElement != null)
    {
        if (eReference == null || eReference == WSDLPackage.Literals.MESSAGE_REFERENCE__EMESSAGE)
        {
            Message message = getEMessage();
            if (message != null)
            {
                QName qName = message.getQName();
                niceSetAttributeURIValue(theElement, WSDLConstants.MESSAGE_ATTRIBUTE,
qName.getNamespaceURI() + "#" + qName.getLocalPart());
            }
        }
    }
}

public void reconcileReferences(boolean deep)
{
    if (element != null)
    {

```

```

    Definition definition = getEnclosingDefinition();
    QName messageQName = createQName(definition,
element.getAttribute(WSDLConstants.MESSAGE_ATTRIBUTE), element);
    Message newMessage = messageQName != null ? (Message)definition.getMessage(messageQName) : null;
    if (newMessage != getEMessage())
    {
        setEMessage(newMessage);
    }
}
super.reconcileReferences(deep);
}
} //MessageReferenceImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.impl;

import java.util.ArrayList;
import java.util.Collection;
import java.util.Iterator;
import java.util.List;

import org.eclipse.emf.common.notify.Notification;
import org.eclipse.emf.ecore.EAttribute;
import org.eclipse.emf.ecore.EClass;
import org.eclipse.emf.ecore.InternalEObject;
import org.eclipse.emf.ecore.impl.ENotificationImpl;
import org.eclipse.wst.wsdl.BindingInput;
import org.eclipse.wst.wsdl.BindingOperation;
import org.eclipse.wst.wsdl.ExtensibilityElement;
import org.eclipse.wst.wsdl.Input;
import org.eclipse.wst.wsdl.Operation;
import org.eclipse.wst.wsdl.WSDLPackage;
import org.eclipse.wst.wsdl.util.WSDLConstants;
import org.w3c.dom.Element;

/**
 * <!-- begin-user-doc -->
 * An implementation of the model object '<em><b>Binding Input</b></em>'.

```

```

* <!-- end-user-doc -->
* <p>
* The following features are implemented:
* <ul>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.BindingInputImpl#getName <em>Name</em>}</li>
* <li>{ @link org.eclipse.wst.wsdl.internal.impl.BindingInputImpl#getEInput <em>EInput</em>}</li>
* </ul>
* </p>
*
* @generated
*/
public class BindingInputImpl extends ExtensibleElementImpl implements BindingInput
{
/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The default value of the '{ @link #getName() <em>Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getName()
 * @generated
 * @ordered
 */
protected static final String NAME_EDEFAULT = null;

/**
 * The cached value of the '{ @link #getName() <em>Name</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getName()
 * @generated
 * @ordered
 */
protected String name = NAME_EDEFAULT;

/**
 * The cached value of the '{ @link #getEInput() <em>EInput</em>}' reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getEInput()
 * @generated
 * @ordered
 */

```

```

protected Input eInput;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected BindingInputImpl()
{
    super();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.BINDING_INPUT;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String getName()
{
    return name;
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void setName(String newName)
{
    String oldName = name;
    name = newName;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.BINDING_INPUT__NAME, oldName,
name));
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated
*/
public Input getEInput()
{
    if (eInput != null && eInput.isProxy())
    {
        InternalEObject oldEInput = (InternalEObject)eInput;
        eInput = (Input)eResolveProxy(oldEInput);
        if (eInput != oldEInput)
        {
            if (eNotificationRequired())
                eNotify(new ENotificationImpl(this, Notification.RESOLVE, WSDLPackage.BINDING_INPUT__EINPUT,
oldEInput, eInput));
        }
    }
    return eInput;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public Input basicGetEInput()
{
    return eInput;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setEInput(Input newEInput)
{
    Input oldEInput = eInput;
    eInput = newEInput;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET, WSDLPackage.BINDING_INPUT__EINPUT,
oldEInput, eInput));
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated NOT
*/

```

```

public javax.wsdl.Input getInput()
{
    return getEInput();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void setInput(javax.wsdl.Input input)
{
    setEInput((Input)input);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_INPUT__NAME:
            return getName();
        case WSDLPackage.BINDING_INPUT__EINPUT:
            if (resolve)
                return getEInput();
            return basicGetEInput();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_INPUT__NAME:
            setName((String)newValue);
            return;
        case WSDLPackage.BINDING_INPUT__EINPUT:
            setEInput((Input)newValue);
    }
}

```

```

        return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_INPUT__NAME:
            setName(NAME_EDEFAULT);
            return;
        case WSDLPackage.BINDING_INPUT__EINPUT:
            setEInput((Input)null);
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.BINDING_INPUT__NAME:
            return NAME_EDEFAULT == null ? name != null : !NAME_EDEFAULT.equals(name);
        case WSDLPackage.BINDING_INPUT__EINPUT:
            return eInput != null;
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{

```

```

if (eIsProxy())
    return super.toString();

StringBuffer result = new StringBuffer(super.toString());
result.append(" (name: "); //$NON-NLS-1$
result.append(name);
result.append(')');
return result.toString();
}

//
// Reconciliation methods
//

public void reconcileAttributes(Element changedElement)
{
    if (changedElement.hasAttribute("name"))
    {
        String name = changedElement.getAttribute("name");
        if (name != null)
        {
            setName(name);
        }
    }
}

public void handleUnreconciledElement(Element child, Collection remainingModelObjects)
{
    super.handleUnreconciledElement(child, remainingModelObjects);
}

public Collection getModelObjects(Object component)
{
    BindingInput bindingInput = (BindingInput)component;
    List list = new ArrayList();
    list.addAll(bindingInput.getEExtensibilityElements());
    return list;
}

//
// For reconciliation: Model -> DOM
//

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;
}

```



```

super.changeAttribute(eAttribute);
Element theElement = getElement();
if (theElement != null)
{
    if (eAttribute == null || eAttribute == WSDLPackage.Literals.BINDING_INPUT__NAME)
        niceSetAttribute(theElement, WSDLConstants.NAME_ATTRIBUTE, getName());
}
}

public Element createElement()
{
    Element newElement = createElement(WSDLConstants.INPUT);
    setElement(newElement);

    Iterator iterator = getExtensibilityElements().iterator();
    while (iterator.hasNext())
    {
        ExtensibilityElement extensibilityElement = (ExtensibilityElement)iterator.next();
        Element child = ((ExtensibilityElementImpl)extensibilityElement).createElement();
        newElement.appendChild(child);
    }

    return newElement;
}

// Resolve the reference to Input
public void reconcileReferences(boolean deep)
{
    if (element != null)
    {
        BindingOperation bop = (BindingOperation)getContainer();
        Operation op = bop.getEOperation();
        if (op != null)
        {
            setInput(op.getInput());
        }
    }
    super.reconcileReferences(deep);
}
} //BindingInputImpl
/*****
* Copyright (c) 2001, 2009 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:

```

* IBM Corporation - initial API and implementation

*****/

```
package org.eclipse.wst.wsd.internal.impl;
```

```
import java.util.List;
```

```
import java.util.Map;
```

```
import javax.wsdl.extensions.schema.SchemaImport;
```

```
import javax.wsdl.extensions.schema.SchemaReference;
```

```
import javax.xml.namespace.QName;
```

```
import org.eclipse.emf.common.notify.Notification;
```

```
import org.eclipse.emf.common.notify.NotificationChain;
```

```
import org.eclipse.emf.ecore.EAttribute;
```

```
import org.eclipse.emf.ecore.EClass;
```

```
import org.eclipse.emf.ecore.InternalEObject;
```

```
import org.eclipse.emf.ecore.impl.ENotificationImpl;
```

```
import org.eclipse.wst.wsd.Definition;
```

```
import org.eclipse.wst.wsd.WSDLPackage;
```

```
import org.eclipse.wst.wsd.XSDSchemaExtensibilityElement;
```

```
import org.eclipse.xsd.XSDFactory;
```

```
import org.eclipse.xsd.XSDSchema;
```

```
import org.eclipse.xsd.impl.XSDSchemaImpl;
```

```
import org.w3c.dom.Document;
```

```
import org.w3c.dom.Element;
```

```
/**
```

```
 * <!-- begin-user-doc -->
```

```
 * An implementation of the model object '<em><b>XSD Schema Extensibility Element</b></em>'.
```

```
 * <!-- end-user-doc -->
```

```
 * <p>
```

```
 * The following features are implemented:
```

```
 * <ul>
```

```
 * <li>{ @link org.eclipse.wst.wsd.internal.impl.XSDSchemaExtensibilityElementImpl#getDocumentBaseURI  
<em>Document Base URI</em>}</li>
```

```
 * <li>{ @link org.eclipse.wst.wsd.internal.impl.XSDSchemaExtensibilityElementImpl#getSchema  
<em>Schema</em>}</li>
```

```
 * </ul>
```

```
 * </p>
```

```
 *
```

```
 * @generated
```

```
 */
```

```
public class XSDSchemaExtensibilityElementImpl extends ExtensibilityElementImpl implements
```

```
XSDSchemaExtensibilityElement
```

```
{
```

```

/**
 * This class is not intended to be serialized.
 * serialVersionUID is assigned with 1L to avoid
 * compiler warning messages.
 */
private static final long serialVersionUID = 1L;

/**
 * The default value of the '{@link #getDocumentBaseURI() <em>Document Base URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getDocumentBaseURI()
 * @generated
 * @ordered
 */
protected static final String DOCUMENT_BASE_URI_EDEFAULT = null;

/**
 * The cached value of the '{@link #getDocumentBaseURI() <em>Document Base URI</em>}' attribute.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getDocumentBaseURI()
 * @generated
 * @ordered
 */
protected String documentBaseURI = DOCUMENT_BASE_URI_EDEFAULT;

/**
 * The cached value of the '{@link #getSchema() <em>Schema</em>}' containment reference.
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @see #getSchema()
 * @generated
 * @ordered
 */
protected XSDSchema schema;

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
protected XSDSchemaExtensibilityElementImpl()
{
    super();
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
protected EClass eStaticClass()
{
    return WSDLPackage.Literals.XSD_SCHEMA_EXTENSIBILITY_ELEMENT;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public String getDocumentBaseURI()
{
    return documentBaseURI;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setDocumentBaseURI(String newDocumentBaseURI)
{
    String oldDocumentBaseURI = documentBaseURI;
    documentBaseURI = newDocumentBaseURI;
    if (eNotificationRequired())
        eNotify(new ENotificationImpl(
            this,
            Notification.SET,
            WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT__DOCUMENT_BASE_URI,
            oldDocumentBaseURI,
            documentBaseURI));
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public XSDSchema getSchema()
{
    return schema;
}

/**

```

```

* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public NotificationChain basicSetSchema(XSDSchema newSchema, NotificationChain msgs)
{
    XSDSchema oldSchema = schema;
    schema = newSchema;
    if (eNotificationRequired())
    {
        ENotificationImpl notification = new ENotificationImpl(
            this,
            Notification.SET,
            WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT__SCHEMA,
            oldSchema,
            newSchema);
        if (msgs == null)
            msgs = notification;
        else
            msgs.add(notification);
    }
    return msgs;
}

/**
* <!-- begin-user-doc -->
* <!-- end-user-doc -->
* @generated
*/
public void setSchema(XSDSchema newSchema)
{
    if (newSchema != schema)
    {
        NotificationChain msgs = null;
        if (schema != null)
            msgs = ((InternalEObject)schema).eInverseRemove(
                this,
                EOPPOSITE_FEATURE_BASE -
                WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT__SCHEMA,
                null,
                msgs);
        if (newSchema != null)
            msgs = ((InternalEObject)newSchema).eInverseAdd(
                this,
                EOPPOSITE_FEATURE_BASE -
                WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT__SCHEMA,
                null,
                msgs);
    }
}

```

```

    msgs = basicSetSchema(newSchema, msgs);
    if (msgs != null)
        msgs.dispatch();
    }
    else if (eNotificationRequired())
        eNotify(new ENotificationImpl(this, Notification.SET,
WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT__SCHEMA, newSchema, newSchema));
    }

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addImport(SchemaImport importSchema)
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addInclude(SchemaReference includeSchema)
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public void addRedefine(SchemaReference redefineSchema)
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated NOT
*/
public SchemaImport createImport()
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public SchemaReference createInclude()
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public SchemaReference createRedefine()
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public List getIncludes()
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->

```

```

* @generated NOT
*/
public List getRedefines()
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public Map getImports()
{
    // TODO: implement this method
    // Ensure that you remove @generated or mark it @generated NOT
    throw new UnsupportedOperationException();
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public NotificationChain eInverseRemove(InternalEObject otherEnd, int featureID, NotificationChain msgs)
{
    switch (featureID)
    {
        case WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT__SCHEMA:
            return basicSetSchema(null, msgs);
    }
    return super.eInverseRemove(otherEnd, featureID, msgs);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public Object eGet(int featureID, boolean resolve, boolean coreType)
{
    switch (featureID)
    {
        case WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT__DOCUMENT_BASE_URI:
            return getDocumentBaseURI();
        case WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT__SCHEMA:

```



```

        return getSchema();
    }
    return super.eGet(featureID, resolve, coreType);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eSet(int featureID, Object newValue)
{
    switch (featureID)
    {
        case WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT_DOCUMENT_BASE_URI:
            setDocumentBaseURI((String)newValue);
            return;
        case WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT_SCHEMA:
            setSchema((XSDSchema)newValue);
            return;
    }
    super.eSet(featureID, newValue);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public void eUnset(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT_DOCUMENT_BASE_URI:
            setDocumentBaseURI(DOCUMENT_BASE_URI_EDEFAULT);
            return;
        case WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT_SCHEMA:
            setSchema((XSDSchema)null);
            return;
    }
    super.eUnset(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */

```

```

public boolean eIsSet(int featureID)
{
    switch (featureID)
    {
        case WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT__DOCUMENT_BASE_URI:
            return DOCUMENT_BASE_URI_EDEFAULT == null ? documentBaseURI != null :
!DOCUMENT_BASE_URI_EDEFAULT.equals(documentBaseURI);
        case WSDLPackage.XSD_SCHEMA_EXTENSIBILITY_ELEMENT__SCHEMA:
            return schema != null;
    }
    return super.eIsSet(featureID);
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated
 */
public String toString()
{
    if (eIsProxy())
        return super.toString();

    StringBuffer result = new StringBuffer(super.toString());
    result.append(" (documentBaseURI: "); //$NON-NLS-1$
    result.append(documentBaseURI);
    result.append(')');
    return result.toString();
}

/* (non-Javadoc)
 * @see org.eclipse.wst.wsdl.internal.impl.WSDLElementImpl#reconcile(org.w3c.dom.Element)
 */
protected void reconcile(Element changedElement)
{
    element = changedElement; // This line may not needed.
    if (schema == null)
    {
        XSDSchema newSchema = XSDSchemaImpl.createSchema(changedElement);
        setSchema(newSchema);
    }
}

public XSDSchema createSchema(Element element)
{
    if (element.getLocalName().equals("schema") &&
XSDConstants.isSchemaForSchemaNamespace(element.getNamespaceURI()))
    {

```

```

XSDSchema xsdSchema = XSDFactory.eINSTANCE.createXSDSchema();
xsdSchema.setElement(element);
return xsdSchema;
}
else
{
return null;
}
}

public Element getElement()
{
if (element != null)
return element;
else if (getSchema() != null)
element = getSchema().getElement();

return element;
}

public void setElement(Element newElement)
{
if (newElement == null && !isReconciling)
{
element = null;
}
else
{
setElementGen(newElement);
}
}

/**
 * <!-- begin-user-doc -->
 * <!-- end-user-doc -->
 * @generated NOT
 */
public QName getElementType()
{
if (elementType == null)
elementType = new QName(XSDConstants.SCHEMA_FOR_SCHEMA_URI_2001,
XSDConstants.SCHEMA_ELEMENT_TAG);

return elementType;
}

/**
 * <!-- begin-user-doc -->

```

```

* <!-- end-user-doc -->
* @generated NOT
*/
public void setElementType(QName newElementType)
{
    // Should not do anything.
}

public void reconcileAttributes(Element changedElement)
{
    super.reconcileAttributes(changedElement);
}

public Element createElement()
{
    if (schema == null) // kb Note: This case is not supposed to happen.
    {
        // cs ... why do we do this if its not supposed to happen?
        // Is there a scenario where this is a usefull fallback?
        // Under what conditions does this code get executed (i.e. why would schema == null)?
        schema = XSDFactory.eINSTANCE.createXSDSchema();
        schema.setSchemaForSchemaQNamePrefix("xsd");
        schema.setTargetNamespace("http://tempuri.org/");
        java.util.Map qNamePrefixToNamespaceMap = schema.getQNamePrefixToNamespaceMap();
        qNamePrefixToNamespaceMap.put("", schema.getTargetNamespace());
        qNamePrefixToNamespaceMap.put(schema.getSchemaForSchemaQNamePrefix(),
org.eclipse.xsd.util.XSDConstants.SCHEMA_FOR_SCHEMA_URI_2001);
        adopt(schema);
        schema.updateElement(true);
        return schema.getElement();
    }
    else
    {
        element = schema.getElement();
        if (element == null)
        {
            adopt(schema);
            schema.updateElement(true);
            element = schema.getElement();
        }
        return element;
    }
}

private void adopt(XSDSchema xsdSchema)
{
    Definition definition = getEnclosingDefinition();
    if (definition == null)

```

```

return;

Document document = definition.getDocument();
if (document == null)
    document = ((DefinitionImpl)definition).updateDocument();

if (xsdSchema.getDocument() != null)
    xsdSchema.setDocument(null);

xsdSchema.setDocument(document);
}

/*
private Element adopt(Element element)
{
    Definition definition = getEnclosingDefinition();
    if (definition == null)
        return element;

    Document document = definition.getDocument();
    if (document == null)
        document = ((DefinitionImpl) definition).updateDocument();

    return (Element)document.importNode(element,true);
}
*/

protected void changeAttribute(EAttribute eAttribute)
{
    if (isReconciling)
        return;

    // TODO... revisit this block of code
    //
    if (eAttribute == null || eAttribute ==
WSDLPackage.Literals.XSD_SCHEMA_EXTENSIBILITY_ELEMENT__SCHEMA)
    {
        // We got a new schema so re-parent it.
        // cs... are we really doing the right thing here? this seems strange
        if (schema != null)
        {
            if ((schema.getElement() == null && getElement() == null) || (schema.getElement() != getElement()))
            {
                schema.setDocument(null);
                schema.setElement(null);
                adopt(schema);
                schema.updateElement();
            }
        }
    }
}

```

```

    }
    }
    else if (eAttribute == WSDLPackage.Literals.WSDL_ELEMENT__ELEMENT)
    {
        setSchema(createSchema(element)); // element is not null
    }
}
} //XSDSchemaExtensibilityElementImpl
/*****
* Copyright (c) 2001, 2007 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl.internal.extensibility;

import java.util.HashMap;

import org.eclipse.wst.wsdl.util.ExtensibilityElementFactory;
import org.eclipse.wst.wsdl.util.ExtensibilityElementFactoryRegistry;

public class ExtensibilityElementFactoryRegistryImpl implements ExtensibilityElementFactoryRegistry
{
    protected HashMap map = new HashMap();

    public void put(String namespace, ExtensibilityElementFactoryDescriptor descriptor)
    {
        map.put(namespace, descriptor);
    }

    public ExtensibilityElementFactory getExtensibilityElementFactory(String namespace)
    {
        ExtensibilityElementFactory result = null;
        ExtensibilityElementFactoryDescriptor descriptor = (ExtensibilityElementFactoryDescriptor)map.get(namespace);
        if (descriptor != null)
        {
            result = descriptor.getExtensibilityElementFactory();
        }
        return result;
    }

    public void registerFactory(String namespace, ExtensibilityElementFactory factory)

```

```

{
    ExtensibilityElementFactoryDescriptor descriptor = new ExtensibilityElementFactoryDescriptor(null, namespace,
null);
    descriptor.setExtensibilityElementFactory(factory);
    map.put(namespace, descriptor);
}
}
/*****
* Copyright (c) 2001, 2006 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/

package org.eclipse.wst.wsdl.validation.internal;

import java.net.MalformedURLException;
import java.net.URL;
import java.util.HashMap;
import java.util.List;
import java.util.Vector;

import org.eclipse.wst.wsdl.validation.internal.resolver.URIResolver;
import org.eclipse.wst.wsdl.validation.internal.util.MessageGenerator;

/**
 * An implementation of the validation info interface.
 */
public class ValidationInfoImpl implements IValidationReport, ControllerValidationInfo
{
    private boolean WRAPPER_ERROR_SUPPORT_ENABLED = true;
    private final String _WARN_NO_VALDIATOR = "_WARN_NO_VALDIATOR";
    private final String _REF_FILE_ERROR_MESSAGE = "_REF_FILE_ERROR_MESSAGE";
    private String validating_file_uri = null;
    private URL validating_file_url = null;
    private boolean wsdlValid = false;
    private List messages = new Vector();
    //private List schemas = new Vector();
    private List nsNoVals = new Vector();
    private MessageGenerator messagegenerator = null;
    private boolean haserrors = false;
    private HashMap nestedMessages = new HashMap();
    private URIResolver uriResolver = null;
    private WSDLValidationConfiguration configuration;

```

```

/**
 * Constructor.
 *
 * @param uri
 *      The URI of the file for the validation.
 */
public ValidationInfoImpl(String uri, MessageGenerator messagegenerator)
{
    this.validating_file_uri = uri;
    if(uri != null)
    {
        uri = uri.replaceAll("%20", " ");
        this.validating_file_uri = uri;
        try
        {
            this.validating_file_url = new URL(uri);
        } catch (MalformedURLException e)
        {
        }
    }
    this.messagegenerator = messagegenerator;
}
/**
 * @see org.eclipse.wst.wsdl.validation.internal.IValidationReport#getFileURI()
 */
public String getFileURI()
{
    return validating_file_uri;
}

/**
 * @see org.eclipse.wst.wsdl.validation.internal.IValidationReport#isWSDLValid()
 */
public boolean isWSDLValid()
{
    return wsdlValid;
}

/**
 * @see org.eclipse.wst.wsdl.validation.internal.IValidationInfo#addError(java.lang.String,
 *      int, int)
 */
public void addError(String message, int line, int column)
{
    addError(message, line, column, validating_file_uri);
}

```



```

/**
 * @see org.eclipse.wst.wsdl.validation.internal.IValidationInfo#addError(java.lang.String,
 *     int, int)
 */
public void addError(String message, int line, int column, String uri)
{
    if(addMessage(message, line, column, uri, ValidationMessageImpl.SEV_ERROR))
    {
        haserrors = true;
    }
}

public void addError(String message, int line, int column, String uri, String errorKey, Object[] messageArguments)
{
    if(addMessage(message, line, column, uri, ValidationMessageImpl.SEV_ERROR, errorKey, messageArguments))
    {
        haserrors = true;
    }
}

/**
 * @see org.eclipse.wst.wsdl.validation.internal.IValidationInfo#addWarning(java.lang.String,
 *     int, int)
 */
public void addWarning(String message, int line, int column)
{
    addWarning(message, line, column, validating_file_uri);
}

/**
 * @see org.eclipse.wst.wsdl.validation.internal.IValidationInfo#addWarning(java.lang.String,
 *     int, int)
 */
public void addWarning(String message, int line, int column, String uri)
{
    addMessage(message, line, column, uri, ValidationMessageImpl.SEV_WARNING);
}

/**
 * Add a message to the list. A message may not be added to the list in
 * certain circumstances such as when the URI is invalid or the message
 * is null.
 *
 * @param message The message to add.
 * @param line The line location of the message.
 * @param column The column location of the message.
 * @param uri The URI of the file that contains the message.
 * @param severity The severity of the message.

```

```

* @return True if the message was able to be added, false otherwise.
*/
private boolean addMessage(String message, int line, int column, String uri, int severity)
{
    return this.addMessage(message, line, column, uri, severity, null, null);
}

/**
* Add a message to the list. A message may not be added to the list in
* certain circumstances such as when the URI is invalid or the message
* is null.
*
* @param message The message to add.
* @param line The line location of the message.
* @param column The column location of the message.
* @param uri The URI of the file that contains the message.
* @param severity The severity of the message.
* @param errorKey The Xerces Error Key
* @param messageArguments The Xerces arguments used to create the error message
* @return True if the message was able to be added, false otherwise.
*/
private boolean addMessage(String message, int line, int column, String uri, int severity, String errorKey, Object[]
messageArguments)
{
    boolean successfullyAdded = false;
    // If the message is null there is nothing to report.
    if(message == null)
    {
        return successfullyAdded;
    }
    String errorURI = uri;
    URL errorURL = null;
    if (errorURI != null)
    {
        try
        {
            {
                errorURI = errorURI.replaceAll("%20", " ");
                errorURL = new URL(errorURI);
            } catch (MalformedURLException e)
            {
            }
        }
        //errorURI = normalizeURI(errorURI);
    }
    // else
    // {
    //     errorURI = validating_file_uri;
    //     errorURL = validating_file_url;
    // }

```

```

//boolean doDialog = true;
if (errorURL != null)
{
    successfullyAdded = true;
    // Add to the appropriate list if nested error support is off or
    // this message is for the current file.
    if (!WRAPPER_ERROR_SUPPORT_ENABLED || validating_file_url.sameFile(errorURL))
    {

        ValidationMessageImpl valmes = new ValidationMessageImpl(message, line,
            column, severity, uri, errorKey, messageArguments);
        messages.add(valmes);
    }
    // If nested error support is enabled create a nested error.
    else if (WRAPPER_ERROR_SUPPORT_ENABLED)
    {
        String nesteduri = errorURL.toExternalForm();
        ValidationMessageImpl nestedmess = new ValidationMessageImpl(message, line,
            column, severity, nesteduri);

        ValidationMessageImpl container = (ValidationMessageImpl) nestedMessages.get(nesteduri);
        if(container == null)
        {
            // Initially set the nested error to a warning. This will automatically be changed
            // to an error if a nested message has a severity of error.
            container = new ValidationMessageImpl(messagegenerator.getString(_REF_FILE_ERROR_MESSAGE,
nesteduri), 1, 0, IValidationMessage.SEV_WARNING, nesteduri);
            nestedMessages.put(nesteduri, container);
            messages.add(container);
        }
        container.addNestedMessage(nestedmess);
    }
}

return successfullyAdded;
}

/**
 * @see org.eclipse.wst.wsdl.validation.internal.IValidationReport#getValidationMessages()
 */
public IValidationMessage[] getValidationMessages()
{
    return (IValidationMessage[])messages.toArray(new IValidationMessage[messages.size()]);
}

/**
 * @see org.eclipse.wst.wsdl.validation.internal.IValidationInfo#addNamespaceWithNoValidator(java.lang.String)
 */

```

```

public void addNamespaceWithNoValidator(String namespace)
{
    // If the list doesn't already contain this namespace, add it to the list
    // and create a warning message.
    if (!nsNoVals.contains(namespace))
    {
        nsNoVals.add(namespace);
        addWarning(messagegenerator.getString(_WARN_NO_VALDIATOR, namespace), 1, 0);
    }
}

/**
 * @see org.eclipse.wst.wsdl.validation.internal.ControllerValidationInfo#completeWSDLValidation()
 */
public void completeWSDLValidation()
{
    if (haserrors)
    {
        wsdlValid = false;
    }
    else
    {
        wsdlValid = true;
    }
}

/**
 * @see org.eclipse.wst.wsdl.validation.internal.IValidationReport#hasErrors()
 */
public boolean hasErrors()
{
    return haserrors;
}

/* (non-Javadoc)
 * @see org.eclipse.wst.wsdl.validate.ValidationReport#getNestedMessages()
 */
public HashMap getNestedMessages()
{
    return nestedMessages;
}

public void setURIResolver(URIResolver uriResolver)
{
    this.uriResolver = uriResolver;
}

```

```

public URIResolver getURIResolver()
{
    return uriResolver;
}

/* (non-Javadoc)
 * @see org.eclipse.wsdl.validate.ValidationInfo#getAttribute(java.lang.String)
 */
public Object getAttribute(String name)
{
    if(configuration == null)
    {
        return null;
    }
    return configuration.getProperty(name);
}

public void setConfiguration(WSDLValidationConfiguration configuration)
{
    this.configuration = configuration;
}
public boolean isValid() {
    return !hasErrors();
}
}

/*****
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 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/

package org.eclipse.wst.wsdl.validation.internal;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

/**
 * A validation message is created when there is information to report from
 * validating a WSDL document.
 */

```

```

public class ValidationMessageImpl implements IValidationMessage
{
    protected String message;
    protected int lineNumber;
    protected int columnNumber;
    protected String uri;
    protected int severity = SEV_ERROR;
    protected List nestedErrors;
    protected String errorKey = null;
    protected Object[] messageArguments = null;

    /**
     * Constructor.
     *
     * @param message The validation message.
     * @param lineNumber The line where the message should be displayed.
     * @param columnNumber The column where the message should be displayed.
     * @deprecated Use constructor with URI parameter.
     */
    public ValidationMessageImpl(String message, int lineNumber, int columnNumber, int severity)
    {
        this(message, lineNumber, columnNumber, severity, null);
    }

    /**
     * Constructor.
     * Allows specifying a uri for the reference that the message refers to.
     *
     * @param message The validation message.
     * @param lineNumber The line where the message should be displayed.
     * @param columnNumber The column where the message should be displayed.
     * @param uri The uri of the reference file for the message.
     */
    public ValidationMessageImpl(String message, int lineNumber, int columnNumber, int severity, String uri)
    {
        this(message, lineNumber, columnNumber, severity, uri, null, null);
    }

    /**
     * Constructor.
     * Allows specifying a uri for the reference that the message refers to.
     *
     * @param message The validation message.
     * @param lineNumber The line where the message should be displayed.
     * @param columnNumber The column where the message should be displayed.
     * @param uri The uri of the reference file for the message.
     * @param errorKey The Xerces Error key
     * @param messageArguments The values used to "fill in the blanks" of a Xerces error Message

```

```

*/
public ValidationMessageImpl(String message, int lineNumber, int columnNumber, int severity, String uri, String
errorKey, Object[] messageArguments)
{
    this.message = message;
    this.lineNumber = lineNumber;
    this.columnNumber = columnNumber;
    this.severity = severity;
    this.uri = uri;
    this.errorKey = errorKey;
    this.messageArguments = messageArguments;
}

/**
 * Returns the validation message.
 *
 * @return The validation message.
 */
public String getMessage()
{
    return message;
}

/**
 * Returns the column number.
 *
 * @return The column number where the message is located.
 */
public int getColumn()
{
    return columnNumber;
}

/**
 * Returns the line number.
 *
 * @return The line number where the message is located.
 */
public int getLine()
{
    return lineNumber;
}

/**
 * returns the uri of the reference file for the validation message.
 *
 * @return The uri of the resource that the message refers to.
 */

```

```

public String getURI()
{
    return uri;
}
/**
 * @see org.eclipse.wst.wsdl.validation.internal.IValidationMessage#getSeverity()
 */
public int getSeverity()
{
    return severity;
}

/**
 * Set the severity of the message.
 *
 * @param severity The severity of the message.
 */
public void setSeverity(int severity)
{
    if(severity == SEV_ERROR || severity == SEV_WARNING)
    {
        this.severity = severity;
    }
}

/**
 * Add a nested validation message to this validation message.
 *
 * @param validationMessage The validation message to add as a nested message.
 */
public void addNestedMessage(IValidationMessage validationMessage)
{
    if (nestedErrors == null)
    {
        nestedErrors = new ArrayList();
    }
    nestedErrors.add(validationMessage);
    int validationMessageSeverity = validationMessage.getSeverity();
    if(validationMessageSeverity == SEV_ERROR)
    {
        setSeverity(SEV_ERROR);
    }
}

/**
 * Get the list of nested validation messages.
 *
 * @return The list of nested validation messages.

```



```

*/
public List getNestedMessages()
{
    return nestedErrors != null ? nestedErrors : Collections.EMPTY_LIST;
}
/**
 * @return the error key
 */
public String getErrorKey()
{
    return errorKey;
}

/**
 * @param errorKey the error key to set
 */
public void setErrorKey(String errorKey)
{
    this.errorKey = errorKey;
}
/**
 * @return the Xerces message arguments used to "fill in the blanks" of the messages
 */
public Object[] getMessageArguments()
{
    return messageArguments;
}
}
}
/*****
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 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/

package org.eclipse.wst.wsdl.validation.internal.eclipse;

import org.apache.xerces.util.XMLGrammarPoolImpl;
import org.apache.xerces.xni.grammars.Grammar;
import org.apache.xerces.xni.grammars.XMLGrammarDescription;

/**
 * A grammar pool for inline schemas. This grammar pool restricts inline schemas
 * from being cached.

```

```

*/
public class InlineSchemaModelGrammarPoolImpl extends XMLGrammarPoolImpl
{
public void putGrammar(Grammar grammar)
{
if (grammar == null)
return;
// we override this method to perform 'selective' caching of schemas
XMLGrammarDescription description = grammar.getGrammarDescription();
if (!fPoolIsLocked && !containsGrammar(grammar.getGrammarDescription()))
{
// in order to avoid caching the inline schemas
// we ensure the literal system id does not end with wsdl
// before we attempt to 'put' the grammar
String litSysId = description.getLiteralSystemId();
String basSysId = description.getBaseSystemId();
if (litSysId != null && litSysId.endsWith("xsd")
&& basSysId != null && basSysId.endsWith("wsdl"))
{
/*
* System.out.println("putGramamr : " +
* schemaDescription.getNamespace() + ", " +
* schemaDescription.getExpandedSystemId() + ", " +
* schemaDescription.getBaseSystemId());
*/
super.putGrammar(grammar);
}
}
}
}
}
/*****
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* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
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*****/

package org.eclipse.wst.wsdl.validation.internal.ui.ant;

import org.apache.tools.ant.types.DTDLocation;
import org.apache.tools.ant.types.XMLCatalog;
import org.xml.sax.InputSource;

/**

```

```

* An implementation of the WSDL Validator's XML Catalog that uses the XML Catalog
* from ant.
*/
public class XMLCatalogImpl extends org.eclipse.wst.wsdl.validation.internal.xml.XMLCatalog
{
    protected XMLCatalog xmlCatalog = new XMLCatalog();

    /**
     * @see org.eclipse.wst.wsdl.validation.internal.xml.XMLCatalog#addEntryToCatalog(java.lang.String,
     java.lang.String)
     */
    public void addEntryToCatalog(String publicId, String systemId)
    {
        DTDLocation resLoc = new DTDLocation();
        resLoc.setLocation(systemId);
        resLoc.setPublicId(publicId);
        xmlCatalog.addEntity(resLoc);
    }

    /**
     * @see org.eclipse.wst.wsdl.validation.internal.xml.XMLCatalog#resolveEntityLocation(java.lang.String,
     java.lang.String)
     */
    public String resolveEntityLocation(String publicId, String systemId)
    {
        String resolvedId = null;

        try
        {
            InputSource is = xmlCatalog.resolveEntity(publicId, systemId);
            if (is != null)
            {
                resolvedId = is.getSystemId();
            }
        }
        //
        catch (Exception e)
        {
            // Do nothing if the resource can't be resolved.
        }
        // needs to return null if it can't resolve the id
        if (resolvedId != null && resolvedId.equals(""))
        {
            resolvedId = null;
        }
        return resolvedId;
    }
}

```

```

/**
 * Add a configured XML Catalog to this catalog.
 *
 * @param catalog A configured XML catalog to add to this catalog.
 */
public void addXMLCatalog(XMLCatalog catalog)
{
    xmlCatalog.addConfiguredXMLCatalog(catalog);
}

}

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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
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 *****/

package org.eclipse.wst.wsdl.validation.internal.wsdl11;

import java.util.Hashtable;
import java.util.List;
import java.util.Vector;

import org.apache.xerces.xni.grammars.XMLGrammarPool;
import org.apache.xerces.xml.XSModel;
import org.eclipse.wst.wsdl.validation.internal.Constants;
import org.eclipse.wst.wsdl.validation.internal.IValidationInfo;
import org.eclipse.wst.wsdl.validation.internal.ValidationInfoImpl;
import org.eclipse.wst.wsdl.validation.internal.resolver.URIResolver;

/**
 * An implementation of WSDL11ValidationInfo.
 */
public class WSDL11ValidationInfoImpl implements IWSDL11ValidationInfo
{
    private IValidationInfo valinfo = null;
    private Hashtable elementlocations = null;
    private List schemas = new Vector();

    public WSDL11ValidationInfoImpl(IValidationInfo valinfo)
    {
        this.valinfo = valinfo;
    }
}

```

```

/**
 * @see org.eclipse.wst.wsdl.validation.internal.wsdl11.IWSDL11ValidationInfo#getFileURI()
 */
public String getFileURI()
{
    return valinfo.getFileURI();
}

/**
 * @see
 org.eclipse.wst.wsdl.validation.internal.wsdl11.IWSDL11ValidationInfo#addSchema(org.apache.xerces.xml.XSModel)
 */
public void addSchema(XSModel xsModel)
{
    if (xsModel != null)
    {
        schemas.add(xsModel);
    }
}

/**
 * @see org.eclipse.wst.wsdl.validation.internal.wsdl11.IWSDL11ValidationInfo#getSchemas()
 */
public XSModel[] getSchemas()
{
    return (XSModel[])schemas.toArray(new XSModel[schemas.size()]);
}

/* (non-Javadoc)
 * @see org.eclipse.wsdl.validate.wsdl11.WSDL11ValidationInfo#clearSchemas()
 */
public void clearSchemas()
{
    schemas.clear();
}

/**
 * @see
 org.eclipse.wst.wsdl.validation.internal.wsdl11.IWSDL11ValidationInfo#setElementLocations(java.util.Hashtable)
 */
public void setElementLocations(Hashtable elementLocations)
{
    this.elementLocations = elementLocations;
}

/**
 * @see org.eclipse.wst.wsdl.validation.internal.wsdl11.IWSDL11ValidationInfo#addError(java.lang.String,

```

```

java.lang.Object)
    */
    public void addError(String message, Object element)
    {
        addError(message, element, null, null);
    }

/**
 * @see org.eclipse.wst.wsdl.validation.internal.wsdl11.IWSDL11ValidationInfo#addError(java.lang.String,
java.lang.Object, java.lang.String, java.lang.Object[])
 */
    public void addError(String message, Object element, String errorKey, Object[] messageArguments)
    {
        LocationHolder location;
        if (elementlocations.containsKey(element))
        {
            location = (LocationHolder)elementlocations.get(element);
            addError(message, location.getLine(), location.getColumn(), location.getURI(), errorKey, messageArguments);
        }
        // if we give it an element that hasn't been defined we'll set the location
        // at (0,0) so the error shows up but no line marker in the editor
        else
        {
            addError(message, 0, 1, getFileURI());
        }
    }

/**
 * @see org.eclipse.wst.wsdl.validation.internal.wsdl11.IWSDL11ValidationInfo#addWarning(java.lang.String,
java.lang.Object)
 */
    public void addWarning(String message, Object element)
    {
        LocationHolder location;
        if (elementlocations.containsKey(element))
        {
            location = (LocationHolder)elementlocations.get(element);
            addWarning(message, location.getLine(), location.getColumn(), location.getURI());
        }
        // if we give it an element that hasn't been defined we'll set the location
        // at (0,0) so the error shows up but no line marker in the editor
        else
        {
            addWarning(message, 0, 1, getFileURI());
        }
    }
}

```

```

/**
 * @see
 org.eclipse.wsdl.validate.wsdl11.WSDL11ValidationInfo#addNamespaceWithNoValidator(java.lang.String)
 */
// public void addNamespaceWithNoValidator(String namespace)
// {
//   valinfo.addNamespaceWithNoValidator(namespace);
// }

/**
 * @see org.eclipse.wst.wsdl.validation.internal.wsdl11.IWSDL11ValidationInfo#addError(java.lang.String, int,
int)
 */
public void addError(String message, int line, int column, String uri)
{
  addError(message, line, column, uri, null, null);
}

public void addError(String message, int line, int column, String uri, String errorKey, Object[] messageArguments)
{
  try
  { ((ValidationInfoImpl)valinfo).addError(message, line, column, uri, errorKey, messageArguments);
  }
  catch (ClassCastException e)
  {
    valinfo.addError(message, line, column, uri);
  }
}

/**
 * @see org.eclipse.wst.wsdl.validation.internal.wsdl11.IWSDL11ValidationInfo#addWarning(java.lang.String, int,
int)
 */
public void addWarning(String message, int line, int column, String uri)
{
  valinfo.addWarning(message, line, column, uri);
}

/** (non-Javadoc)
 * @see org.eclipse.wsdl.validate.wsdl11.WSDL11ValidationInfo#getURIResolver()
 */
public URIResolver getURIResolver()
{
  return valinfo.getURIResolver();
}

/** (non-Javadoc)

```

```

    * @see org.eclipse.wst.wsdl.validation.internal.wsdl11.IWSDL11ValidationInfo#getSchemaCache()
    */
    public XMLGrammarPool getSchemaCache()
    {
        XMLGrammarPool grammarPool =
        (XMLGrammarPool)valinfo.getAttribute(Constants.XMLSCHEMA_CACHE_ATTRIBUTE);
        return grammarPool;
    }

    /* (non-Javadoc)
    * @see org.eclipse.wst.wsdl.validation.internal.wsdl11.IWSDL11ValidationInfo#getXMLCache()
    */
    public XMLGrammarPool getXMLCache()
    {
        XMLGrammarPool grammarPool =
        (XMLGrammarPool)valinfo.getAttribute(Constants.XML_CACHE_ATTRIBUTE);
        return grammarPool;
    }
}

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 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/

package org.eclipse.wst.wsdl.validation.internal.wsdl11;

import java.io.InputStream;
import java.net.URL;
import java.util.ArrayList;
import java.util.Hashtable;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.SortedSet;
import java.util.TreeSet;

import javax.wsdl.Import;
import javax.wsdl.WSDLException;

import org.apache.xerces.impl.XMLErrorReporter;

```



```

import org.apache.xerces.parsers.DOMParser;
import org.apache.xerces.parsers.StandardParserConfiguration;
import org.apache.xerces.xni.XNIException;
import org.eclipse.wst.wsdl.validation.internal.util.MessageGenerator;
import org.eclipse.wst.wsdl.validation.internal.xml.LineNumberDOMParser;
import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.xml.sax.ErrorHandler;
import org.xml.sax.InputSource;
import org.xml.sax.SAXException;
import org.xml.sax.SAXParseException;

import com.ibm.wsdl.DefinitionImpl;
import com.ibm.wsdl.util.StringUtils;

/**
 * A WSDL reader that supports cyclic WSDL imports, schema imports and inline schemas.
 * This reader is based on the WSDLReaderImpl from WSDL4J.
 */
public class WSDLReaderImpl
{
    protected MessageGenerator messagegenerator;
    protected IWSDL11ValidationInfo wsdlvalinfo;

    /**
     * Constructor.
     *
     * @param wsdlvalinfo The WSDL 1.1 validation info object to use.
     */
    public WSDLReaderImpl(IWSDL11ValidationInfo wsdlvalinfo)
    {
        this.wsdlvalinfo = wsdlvalinfo;
    }

    /**
     * Parse the root document. This method will find all imports and parse them as
     * well creating a WSDLDocument for each unique WSDL file. This method supports
     * cyclic WSDL import statements such that file A can import file B and file B
     * can import file A.
     *
     * @param documentBaseURI The base URI of the root document.
     * @param defEl The definition element of the root document.
     * @return An array of WSDLDocuments containing all of the unique files in the description.
     * @throws WSDLException
     */
    protected WSDLDocument[] parseDocument(String documentBaseURI, Element defEl) throws WSDLException
    {
        int initialImportArraySize = 20;

```

```

List[] filesAtDepth = new ArrayList[initialImportArraySize];
Map filesImporting = new Hashtable();
SortedSet parsedImports = new TreeSet();
SortedSet importsToParse = new TreeSet();
int maxdepth = 0;

WSDLDocument rootdoc = new WSDLDocument(documentBaseURI, defEl, 0, messagegenerator, wsdlvalinfo);
String targetNamespace = rootdoc.getDefinition().getTargetNamespace();
ImporterHolder rootImport = new ImporterHolder(targetNamespace, documentBaseURI, documentBaseURI, rootdoc,
0, null, messagegenerator, wsdlvalinfo);
rootImport.createWSDLImport(rootdoc);
parsedImports.add(rootImport);
List rootList = new ArrayList();
filesImporting.put(rootImport.getLocation(), new ArrayList());
rootList.add(rootdoc);
filesAtDepth[0] = rootList;
importsToParse.addAll(rootdoc.getImports());
Setimps = rootdoc.getImports();
Iterator impIter =imps.iterator();
while(impIter.hasNext())
{
    ImporterHolder imp = (ImporterHolder)impIter.next();
    List tempList = new ArrayList();
    tempList.add(imp.getImportingDocument());
    filesImporting.put(imp.getLocation(), tempList);
}

while(!importsToParse.isEmpty())
{
    ImporterHolder imp = (ImporterHolder)importsToParse.first();
    // It's important to initialize the import here so each import
    // is only created once. In the case of reciprocal imports this
    // avoids an infinite loop.
    imp.initialize();
    WSDLDocument impDoc = imp.getWSDLDocument();

    importsToParse.remove(imp);

    parsedImports.add(imp);

    // Add new imports to the list of imports to parse.
    // Remove all the imports that have already been parsed.
    if(impDoc != null)
    {
        // Increase import array if necessary.
        if(imp.getDepth() >= initialImportArraySize)
        {
            List[] tempArray = new List[filesAtDepth.length + initialImportArraySize];

```

```

    System.arraycopy(filesAtDepth, 0, tempArray, 0, filesAtDepth.length);
    filesAtDepth = tempArray;
}
// Create the list for the depth if necessary.
int impDepth = imp.getDepth();
if(filesAtDepth[impDepth] == null)
{
    if(maxdepth < impDepth)
    {
        maxdepth = impDepth;
    }
    filesAtDepth[impDepth] = new ArrayList();
}
filesAtDepth[imp.getDepth()].add(impDoc);

Set imports = impDoc.getImports();
ImporterHolder[] importsArray = (ImporterHolder[])imports.toArray(new ImporterHolder[imports.size()]);
for(int i = 0; i < importsArray.length; i++)
{
    ImporterHolder ih = importsArray[i];
    // If already parsed, add the definition importing this file to the list.
    if(filesImporting.containsKey(ih.getLocation()))
    {
        ((List)filesImporting.get(ih.getLocation())).add(ih.getImportingDocument());
    }
    // Otherwise add it to the list to parse.
    else
    {
        // Add this import to the list of files importing list.
        List tempList = new ArrayList();
        tempList.add(ih.getImportingDocument());
        filesImporting.put(ih.getLocation(), tempList);
        importsToParse.add(ih);
    }
}
}
}

// Add all of the imports to the respective documents.
Iterator importElementsIter = parsedImports.iterator();
while(importElementsIter.hasNext())
{
    ImporterHolder imp = (ImporterHolder)importElementsIter.next();
    List files = (List)filesImporting.get(imp.getLocation());
    Iterator filesIter = files.iterator();
    while(filesIter.hasNext())
    {
        WSDLDocument doc = (WSDLDocument)filesIter.next();

```

```

DefinitionImpl def = (DefinitionImpl)doc.getDefinition();
Import impElem = imp.getImport();
if(impElem != null)
{
    def.addImport(impElem);
    if(!imp.isWSDLFileImport())
    {
        doc.addSchemas(imp.getSchemas());
    }
}

}

// Parse the WSDL documents.
// Parse the Messages.
for(int i = maxdepth; i >=0; i--)
{
    List docs = filesAtDepth[i];
    Iterator docsIter = docs.iterator();
    while(docsIter.hasNext())
    {
        WSDLDocument doc = (WSDLDocument)docsIter.next();
        doc.parseMessages();
    }
}
// Parse the Porttypes.
for(int i = maxdepth; i >=0; i--)
{
    List docs = filesAtDepth[i];
    Iterator docsIter = docs.iterator();
    while(docsIter.hasNext())
    {
        WSDLDocument doc = (WSDLDocument)docsIter.next();
        doc.parsePorttypes();
    }
}
// Parse the Bindings.
for(int i = maxdepth; i >=0; i--)
{
    List docs = filesAtDepth[i];
    Iterator docsIter = docs.iterator();
    while(docsIter.hasNext())
    {
        WSDLDocument doc = (WSDLDocument)docsIter.next();
        doc.parseBindings();
    }
}

```

```

    }
    // Parse the Services.
    for(int i = maxdepth; i >=0; i--)
    {
        List docs = filesAtDepth[i];
        Iterator docsIter = docs.iterator();
        while(docsIter.hasNext())
        {
            WSDLDocument doc = (WSDLDocument)docsIter.next();
            doc.parseServices();
        }
    }
    // Parse the Extensibility Elements.
    for(int i = maxdepth; i >=0; i--)
    {
        List docs = filesAtDepth[i];
        Iterator docsIter = docs.iterator();
        while(docsIter.hasNext())
        {
            WSDLDocument doc = (WSDLDocument)docsIter.next();
            doc.parseExtensibilityElements();
        }
    }

    List wsdlDocs = new ArrayList();
    for(int i = maxdepth; i >=0; i--)
    {
        List docs = filesAtDepth[i];
        Iterator docsIter = docs.iterator();
        while(docsIter.hasNext())
        {
            WSDLDocument doc = (WSDLDocument)docsIter.next();
            wsdlDocs.add(doc);
        }
    }

    return (WSDLDocument[])wsdlDocs.toArray(new WSDLDocument[wsdlDocs.size()]);
}

/**
 * Get the WSDL document.
 *
 * @param inputSource The source of the document being retrieved.
 * @param desc The description of the document being retrieved.
 * @return The WSDL document.
 * @throws WSDLException
 */
public static Document getDocument(InputSource inputSource, String desc) throws WSDLException

```

```

{
try
{
StandardParserConfiguration configuration = new StandardParserConfiguration()
{
protected XMLErrorReporter createErrorReporter()
{
return new XMLErrorReporter()
{
public void reportError(String domain, String key, Object[] arguments, short severity) throws XNIException
{
boolean reportError = true;
if (key.equals("PrematureEOF"))
{
reportError = false;
}

if (reportError)
{
super.reportError(domain, key, arguments, severity);
}
}
};
}
};

ErrorHandler errorHandler = new ErrorHandler()
{
/* (non-Javadoc)
* @see org.xml.sax.ErrorHandler#error(org.xml.sax.SAXParseException)
*/
public void error(SAXParseException exception) throws SAXException
{
// TODO Auto-generated method stub

}
/* (non-Javadoc)
* @see org.xml.sax.ErrorHandler#fatalError(org.xml.sax.SAXParseException)
*/
public void fatalError(SAXParseException exception) throws SAXException
{
// TODO Auto-generated method stub

}
/* (non-Javadoc)
* @see org.xml.sax.ErrorHandler#warning(org.xml.sax.SAXParseException)
*/
public void warning(SAXParseException exception) throws SAXException

```

```

    {
        // TODO Auto-generated method stub

    }
};

DOMParser builder = new LineNumberDOMParser(configuration);
builder.setErrorHandler(errorHandler);
builder.parse(inputSource);
Document doc = builder.getDocument();

return doc;
}
catch (Throwable t)
{
    throw new WSDLException(WSDLException.PARSER_ERROR, "Problem parsing '" + desc + "'", t);
}
}

/**
 * Read a WSDL document using a context URI and file URI.
 *
 * @param contextURI The context URI to use.
 * @param wsdlURI The WSDL URI to use.
 * @return An array of WSDLDocuments.
 * @throws WSDLException
 */
public WSDLDocument[] readWSDL(String contextURI, String wsdlURI) throws WSDLException
{
    try
    {
        URL contextURL = (contextURI != null) ? StringUtils.getURL(null, contextURI) : null;
        URL url = StringUtils.getURL(contextURL, wsdlURI);
        InputStream reader = StringUtils.getContentAsStream(url);
        InputSource inputSource = new InputSource(reader);
        Document doc = getDocument(inputSource, wsdlURI);
        reader.close();
        WSDLDocument[] wsdlDocs = null;
        // only parse the document if it isn't empty
        if(doc.getDocumentElement() != null)
        {
            wsdlDocs = readWSDL(url.toString(), doc);
        }
        return wsdlDocs;
    }
    catch (WSDLException e)
    {
        throw e;
    }
}

```

```

    }
    catch (Throwable t)
    {
        throw new WSDLException(
            WSDLException.OTHER_ERROR,
            "Unable to resolve imported document at '" + wsdlURI + "'",
            t);
    }
}

/**
 * Set the messagegenerator for the reader.
 *
 * @param mg The message generator to set.
 */
public void setMessageGenerator(MessageGenerator mg)
{
    messagegenerator = mg;
}

/**
 * Read the WSDL document accessible via the specified
 * URI into a WSDL definition.
 *
 * @param wsdlURI A URI pointing to a WSDL file.
 * @return An array of WSDLDocuments.
 */
public WSDLDocument[] readWSDL(String wsdlURI) throws WSDLException
{
    return readWSDL(null, wsdlURI);
}

/**
 * Read the WSDL document described by a URI and its definitions element.
 *
 * @param documentBaseURI The URI of the WSDL document.
 * @param definitionsElement The definitions element for the WSDL document.
 * @return An array of WSDLDocuments.
 * @throws WSDLException
 */
protected WSDLDocument[] readWSDL(String documentBaseURI,
    Element definitionsElement)
    throws WSDLException
{
    return parseDocument(documentBaseURI, definitionsElement);
}

/**

```



```

* Read the specified WSDL document.
*
* @param documentBaseURI The document base URI.
* @param wsdlDocument The WSDL document.
* @return An array of WSDLDocuments.
*/
public WSDLDocument[] readWSDL(String documentBaseURI, Document wsdlDocument)
    throws WSDLException
{
    return readWSDL(documentBaseURI, wsdlDocument.getDocumentElement());
}

}

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* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.wst.wsdl;

import org.eclipse.emf.common.EMFPlugin.EclipsePlugin;

/**
* The actual implementation of the Eclipse <b>Plugin</b>.
* <p>
* <b>Note:</b> This class/interface is part of an interim API that is still under development and expected to
* change significantly before reaching stability. It is being made available at this early stage to solicit feedback
* from pioneering adopters on the understanding that any code that uses this API will almost certainly be broken
* (repeatedly) as the API evolves.
* </p>
* @since 1.0
*/
public class WSDLPluginImplementation extends EclipsePlugin
{
    /**
    * Creates an instance.
    */
    public WSDLPluginImplementation()
    {

```

```

super();

// Remember the static instance.
//
WSDLPlugin.plugin = this;
}
}
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*
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*****/
package org.eclipse.wst.wsi.internal.report;

import java.io.IOException;
import java.io.Reader;
import java.io.Writer;

import org.eclipse.wst.wsi.internal.core.WSIException;
import org.eclipse.wst.wsi.internal.core.report.Report;
import org.w3c.dom.Document;

/**
 * WS-I conformance test ReportWriter for wsi plugin.
 * This ReportWriter writes nothing so no report file will be created.
 */
public class ReportNoWriterImpl implements org.eclipse.wst.wsi.internal.core.report.ReportWriter
{

/**
 * @see java.lang.Object#Object()
 */
public ReportNoWriterImpl()
{
}

/** (non-Javadoc)
 * @see org.wsi.test.document.DocumentWriter#getDocument()
 */
public Document getDocument() throws UnsupportedOperationException
{
throw new UnsupportedOperationException();
}
}

```

```

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentWriter#setWriter(String)
 */
public void setWriter(String documentLocation) throws IOException
{
}

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentWriter#write(Reader)
 */
public void write(Reader reader) throws WSIException, IllegalStateException
{
}

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentWriter#write(Reader, Writer)
 */
public void write(Reader reader, Writer writer) throws WSIException
{
}

/* (non-Javadoc)
 * @see org.wsi.test.report.ReportWriter#write(Report)
 */
public void write(Report report) throws IllegalStateException
{
}

/* (non-Javadoc)
 * @see org.wsi.test.report.ReportWriter#write(Report, Writer)
 */
public void write(Report report, Writer writer)
{
}

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentWriter#close()
 */
public void close() throws WSIException, IllegalStateException
{
}
}
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```

```

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*****/
package org.eclipse.wst.wsi.internal.report;

import org.eclipse.wst.wsi.internal.core.report.Report;
import org.eclipse.wst.wsi.internal.core.report.impl.ReportImpl;

/**
 * Null report.
 *
 * @author Jeffrey Liu (jeffliu@ca.ibm.com)
 */
public class NullReportImpl extends ReportImpl implements Report
{
    /* (non-Javadoc)
     * @see org.wsi.test.report.Report#getStartXMLString(java.lang.String)
     */
    public String getStartXMLString(String namespaceName)
    {
        return "";
    }

    /* (non-Javadoc)
     * @see org.wsi.test.report.Report#getEndXMLString(java.lang.String)
     */
    public String getEndXMLString(String namespaceName)
    {
        return "";
    }

    /* (non-Javadoc)
     * @see org.wsi.test.report.Report#getErrorXMLString(java.lang.String, java.lang.String)
     */
    public String getErrorXMLString(String namespaceName, String errorDetail)
    {
        return "";
    }

    /* (non-Javadoc)
     * @see org.wsi.test.document.DocumentElement#toXMLString(java.lang.String)
     */
    public String toXMLString(String namespaceName)
    {
        return "";
    }
}

```

```

}
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*****/

```

```
package org.eclipse.wst.wsi.internal.report;
```

```

import org.eclipse.wst.wsi.internal.core.WSIException;
import org.eclipse.wst.wsi.internal.core.report.ArtifactReference;
import org.eclipse.wst.wsi.internal.core.report.AssertionResult;
import org.eclipse.wst.wsi.internal.core.report.Report;
import org.eclipse.wst.wsi.internal.core.report.ReportWriter;
import org.eclipse.wst.wsi.internal.core.report.impl.DefaultReporter;

```

```
/**
```

```

* This reporter does not write artifacts and assertions
*/

```

```

public class SimpleReporter extends DefaultReporter
{
    public SimpleReporter(Report report, ReportWriter reportWriter)
    {
        super(report, reportWriter);
    }
}

```

```
/* (non-Javadoc)
```

```

* @see org.wsi.test.report.BuildReport#addArtifactReference(org.wsi.test.report.ArtifactReference)
*/

```

```

public void addArtifactReference(ArtifactReference artifactReference)
    throws WSIException
{
    report.addArtifactReference(artifactReference);
}

```

```
/* (non-Javadoc)
```

```

* @see org.wsi.test.report.BuildReport#addAssertionResult(org.wsi.test.report.AssertionResult)
*/

```

```

public void addAssertionResult(AssertionResult assertionResult)
    throws WSIException
{
    report.addAssertionResult(assertionResult);
}

```

```

}
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*****/
package org.eclipse.wst.wsi.internal.document;

import org.eclipse.wst.wsi.internal.core.report.Report;
import org.eclipse.wst.wsi.internal.core.report.ReportWriter;
import org.eclipse.wst.wsi.internal.core.report.Reporter;
import org.eclipse.wst.wsi.internal.report.NullReportImpl;
import org.eclipse.wst.wsi.internal.report.ReportNoWriterImpl;
import org.eclipse.wst.wsi.internal.report.SimpleReporter;

/**
 * DocumentFactoryImpl
 *
 * Extends the WS-I Test Tools document factory to specify specific Report
 * and ReportWriter classes needed for inclusion of the tools in WSAD.
 */
public class DocumentFactoryImpl extends org.eclipse.wst.wsi.internal.core.document.impl.DocumentFactoryImpl
{

/**
 * Constructor for DocumentFactoryImpl.
 */
public DocumentFactoryImpl()
{
    super();
}

/**
 * Create a new instance of a DocumentWriter.
 */
public ReportWriter newReportWriter()
{
    // Return implementation
    return new ReportNoWriterImpl();
}

/**

```

```

* Create report.
* @return newly created report.
*/
public Report newReport()
{
    return new NullReportImpl();
}

/**
* Create a reporter.
* @return newly created reporter.
*/
public Reporter newReporter(Report report, ReportWriter reportWriter)
{
    return new SimpleReporter(report, reportWriter);
}
}

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*****/
package org.eclipse.wst.wsi.internal.core.report;

import javax.xml.namespace.QName;

import org.eclipse.wst.wsi.internal.core.WSIConstants;
import org.eclipse.wst.wsi.internal.core.document.DocumentElement;

/**
* This interface is used to maintain and access the Prerequisite Failed List.
*
* @version 1.0.1
* @author Peter Brittenham (peterbr@us.ibm.com)
*/
public interface PrereqFailedList extends DocumentElement
{
    /**
    * Element name.
    */
    public static final String ELEM_NAME = WSIConstants.ELEM_PREREQ_FAILED_LIST;
}

```

```

* QName.
*/
public static final QName QNAME =
    new QName(WSIConstants.NS_URI_WSI_REPORT, ELEM_NAME);

/**
 * Add test assertion ID.
 * @param assertionID test assertion ID.
 */
public void addTestAssertionID(String assertionID);

}
/*****
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 *
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 *****/
package org.eclipse.wst.wsi.internal.core.report.impl;

import java.io.PrintWriter;
import java.io.StringWriter;

import org.eclipse.wst.wsi.internal.core.WSIConstants;
import org.eclipse.wst.wsi.internal.core.document.DocumentElement;
import org.eclipse.wst.wsi.internal.core.profile.validator.EnvelopeValidator;
import org.eclipse.wst.wsi.internal.core.profile.validator.MessageValidator;
import org.eclipse.wst.wsi.internal.core.report.AssertionResult;
import org.eclipse.wst.wsi.internal.core.report.Entry;
import org.eclipse.wst.wsi.internal.core.report.EntryContainer;
import org.eclipse.wst.wsi.internal.core.util.EntryType;
import org.eclipse.wst.wsi.internal.core.xml.XMLUtils;

/**
 * This class represents an entry in a report.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class EntryImpl extends EntryResultImpl implements Entry
{
    /**
     * Entry type.
     */
}

```



```

protected EntryType entryType = null;

/**
 * Artifact name (optional).
 */
protected String artifactName = null;

/**
 * Reference ID.
 */
protected String referenceID = null;

/**
 * Parent element name (only used when entry type is "port" or "operation").
 */
protected String parentElementName = null;

/**
 * Entry detail object.
 */
protected Object entryDetail = null;

/**
 * Entry container.
 */
protected EntryContainer entryContainer = null;

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#getEntryType()
 */
public EntryType getEntryType()
{
    return this.entryType;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#setEntryType(EntryType)
 */
public void setEntryType(EntryType entryType)
{
    this.entryType = entryType;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#getArtifactName()
 */
public String getArtifactName()
{

```

```

    return this.artifactName;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#setArtifactName(java.lang.String)
 */
public void setArtifactName(String artifactName)
{
    this.artifactName = artifactName;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#getReferenceID()
 */
public String getReferenceID()
{
    return this.referenceID;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#setReferenceID(String)
 */
public void setReferenceID(String referenceID)
{
    this.referenceID = referenceID;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#getParentElementName()
 */
public String getParentElementName()
{
    return this.parentElementName;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#setParentElementName(String)
 */
public void setParentElementName(String parentElementName)
{
    this.parentElementName = parentElementName;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#getEntryDetail()
 */
public Object getEntryDetail()
{

```

```

    return this.entryDetail;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#setEntryDetail(Object)
 */
public void setEntryDetail(Object entryDetail)
{
    this.entryDetail = entryDetail;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#getEntryContainer()
 */
public EntryContainer getEntryContainer()
{
    return this.entryContainer;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#setEntryContainer(org.wsi.test.report.EntryContainer)
 */
public void setEntryContainer(EntryContainer entryContainer)
{
    this.entryContainer = entryContainer;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.EntryResult#addAssertionResult(AssertionResult)
 */
public void addAssertionResult(AssertionResult assertionResult)
{
    super.addAssertionResult(assertionResult);

    if (this.entryContainer != null)
        this.entryContainer.addAssertionResult(assertionResult);
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#getStartXMLString(String)
 */
public String getStartXMLString(String namespaceName, boolean showLogEntry, boolean envelopeArtifactType)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))

```

```

nsName += ":";

// Create element
pw.print(" <" + nsName + ELEM_NAME + " ");

if (this.entryType != null)
{
    if (envelopeArtifactType)
    {
        // we use the same actual entry for both message and envelope artifacts
        // we now need to output entry type names that actually pertain to the artifact type
        pw.print(
            WSIConstants.ATTR_TYPE + "=\"" +
getCorrespondingEnvelopeEntryTypeName(this.entryType.getTypeName()) + "\" ");
    }
    else
    {
        pw.print(
            WSIConstants.ATTR_TYPE + "=\"" + this.entryType.getTypeName() + "\" ");
    }
}

else if (this.artifactName != null)
{
    pw.print(WSIConstants.ATTR_TYPE + "=\"" + this.artifactName + "\" ");
}

if (this.referenceID != null)
    pw.print(WSIConstants.ATTR_REFERENCE_ID + "=\"" + XMLUtils.xmlEscapedString(this.referenceID) + "\"
");

// If service name was set then add it
//if (parentElementName != null) {
// pw.print(" " + WSIConstants.ATTR_PARENT_ELEMENT_NAME + "=\"" + this.parentElementName + "\"");
//}

// ADD: Need to check for config option that specifies
// that log entries should be added

// If target is a log entry, then add reference to it
if ((entryType != null) && (entryType.getArtifactType().isLoggable()) && (showLogEntry))
{
    DocumentElement logEntry = (DocumentElement) entryDetail;
    pw.println("value=\"" + logEntry.toXMLString(WSIConstants.NS_NAME_WSI_LOG) + "\" ");
}

// End element

```

```

pw.println(">");

return sw.toString();
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#getStartXMLString(String)
 */
public String getStartXMLString(String namespaceName, boolean showLogEntry)
{
return getStartXMLString(namespaceName, showLogEntry, false);
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Entry#getEndXMLString(String)
 */
public String getEndXMLString(String namespaceName)
{
String nsName = namespaceName;
if ((!nsName.equals("") && (!nsName.endsWith(":"))))
nsName += ":";

return " </" + nsName + ELEM_NAME + ">";
}

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentElement#toXMLString(String)
 */
public String toXMLString(String namespaceName)
{
// Return string
return getStartXMLString("", false) + getEndXMLString("");
}

public String getCorrespondingEnvelopeEntryTypeName(String messageEntryTypeName)
{
String envelopeEntryTypeName = messageEntryTypeName;
if (messageEntryTypeName != null)
{
if (messageEntryTypeName.equals(MessageValidator.TYPE_MESSAGE_ANY))
envelopeEntryTypeName = EnvelopeValidator.TYPE_ENVELOPE_ANY;
else if (messageEntryTypeName.equals(MessageValidator.TYPE_MESSAGE_REQUEST))
envelopeEntryTypeName = EnvelopeValidator.TYPE_ENVELOPE_REQUEST;
else if (messageEntryTypeName.equals(MessageValidator.TYPE_MESSAGE_RESPONSE))
envelopeEntryTypeName = EnvelopeValidator.TYPE_ENVELOPE_RESPONSE;
}
}

return envelopeEntryTypeName;

```

```

}
}
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*
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*****/
package org.eclipse.wst.wsi.internal.core.report.impl;

import java.io.PrintWriter;
import java.io.Writer;

import org.eclipse.wst.wsi.internal.core.document.impl.DocumentWriterImpl;
import org.eclipse.wst.wsi.internal.core.report.Report;
import org.eclipse.wst.wsi.internal.core.report.ReportWriter;

/**
 * Defines the interface used to write the Conformance XML documents.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class ReportWriterImpl
    extends DocumentWriterImpl
    implements ReportWriter
{
    /**
     * Report writer.
     */
    public ReportWriterImpl()
    {
    }

    /**
     * Write the entire contents of the document using the writer
     * that was previously set using the setWriter method.
     */
    public void write(Report report) throws IllegalStateException
    {
        // If writer was not set previously, then throw exception
        if (writer == null)
        {
            throw new IllegalStateException("Report writer must be set before writing report.");
        }
    }
}

```

```

    }

    // Write report
    write(report, this.writer);
}

/**
 * Write the entire contents of the document.
 */
public void write(Report report, Writer writer)
{
    // Create print writer
    new PrintWriter(writer);

    // ADD: Write out complete report
}
}
/*****
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 *
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 *****/
package org.eclipse.wst.wsi.internal.core.report.impl;

import java.io.PrintWriter;
import java.io.StringWriter;
import java.util.Iterator;
import java.util.Vector;

import org.eclipse.wst.wsi.internal.core.WSConstants;
import org.eclipse.wst.wsi.internal.core.report.PrereqFailedList;

/**
 * This interface is used to maintain and access the Prerequisite Failed List.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class PrereqFailedListImpl implements PrereqFailedList
{
    /**
     * List of test assertion IDs.
     */

```

```

protected Vector idList = new Vector();

/* (non-Javadoc)
 * @see org.wsi.test.report.PrereqFailedList#addTestAssertionID(java.lang.String)
 */
public void addTestAssertionID(String assertionID)
{
    idList.add(assertionID);
}

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentElement#toXMLString(String)
 */
public String toXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    if (this.idList.size() > 0)
    {
        // Create element
        pw.println("    <" + nsName + ELEM_NAME + ">");

        // Include each test assertion ID
        Iterator iterator = idList.iterator();
        while (iterator.hasNext())
        {
            pw.print(
                "        <" + nsName + WSIConstants.ELEM_TEST_ASSERTION_ID + ">");
            pw.print((String) iterator.next());
            pw.println("</" + nsName + WSIConstants.ELEM_TEST_ASSERTION_ID + ">");
        }

        // End element
        pw.println("    </" + nsName + ELEM_NAME + ">");
    }

    return sw.toString();
}

}

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*****/

package org.eclipse.wst.wsi.internal.core.report.impl;

import java.io.PrintWriter;

import java.io.StringWriter;

import java.util.List;

import java.util.Vector;

import org.eclipse.wst.wsi.internal.core.WSConstants;

import org.eclipse.wst.wsi.internal.core.WSIException;

import org.eclipse.wst.wsi.internal.core.log.Log;

import org.eclipse.wst.wsi.internal.core.report.ArtifactReference;

import org.eclipse.wst.wsi.internal.core.report.AssertionResult;

import org.eclipse.wst.wsi.internal.core.report.Entry;

import org.eclipse.wst.wsi.internal.core.report.EntryContainer;

import org.eclipse.wst.wsi.internal.core.report.FailureDetail;

import org.eclipse.wst.wsi.internal.core.report.Report;

import org.eclipse.wst.wsi.internal.core.report.ReportArtifact;

import org.eclipse.wst.wsi.internal.core.report.ReportContext;

import org.eclipse.wst.wsi.internal.core.util.TestUtils;

import org.eclipse.wst.wsi.internal.core.util.Utils;

import org.eclipse.wst.wsi.internal.core.xml.XMLUtils;

/**

* WS-I conformance test report.

*

* @version 1.0.1

* @author Peter Brittenham (peterbr@us.ibm.com)

*/

public class ReportImpl implements Report

{

/**

* Report filename.

*/

protected String filename = null;

/**

* Report context.

*/

protected ReportContext reportContext = null;

/**

```

* Log file.
*/
protected Log log = null;

/**
* Summary all passed flag.
*/
protected boolean allPassed = true;

/**
* Test coverage.
*/
//protected TestCoverage testCoverage;

/**
* Artifact list.
*/
protected Vector artifactList = new Vector();

/**
* Entry list.
*/
protected Vector entryList = new Vector();

/**
* Current artifact.
*/
protected ReportArtifact currentArtifact = null;

/**
* Current entry.
*/
protected Entry currentEntry = null;

/**
* Prereq type.
*/
protected String prereqType;

/**
* Create a new conformance report.
*/
public ReportImpl()
{
}

/* (non-Javadoc)
* @see org.wsi.test.document.WSIDocument#getLocation()

```

```

*/
public String getLocation()
{
    // Get report URI
    //return reportURI;
    return this.filename;
}

/* (non-Javadoc)
 * @see org.wsi.test.document.WSIDocument#setLocation(java.lang.String)
 */
public void setLocation(String reportURI)
{
    this.filename = reportURI;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Report#getReportContext()
 */
public ReportContext getReportContext()
{
    return this.reportContext;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Report#setReportContext(org.wsi.test.report.ReportContext)
 */
public void setReportContext(ReportContext reportContext)
{
    // Save input references
    this.reportContext = reportContext;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Report#getCurrentArtifact()
 */
public ReportArtifact getCurrentArtifact()
{
    // Return artifact
    return this.currentArtifact;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#setCurrentArtifact(org.wsi.test.report.ReportArtifact)
 */
public void setCurrentArtifact(ReportArtifact artifact) throws WSIException
{
    // Save reference to artifact

```

```

artifactList.add(artifact);

// Set as current artifact
this.currentArtifact = artifact;

// Set default prereq processing
this.prereqType = PREREQ_TYPE_ENTRY;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#endCurrentArtifact()
 */
public void endCurrentArtifact() throws WSIException
{
    // Remove current artifact
    this.currentArtifact = null;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#addArtifactReference(org.wsi.test.report.ArtifactReference)
 */
public void addArtifactReference(ArtifactReference artifactReference)
    throws WSIException
{
    // ADD: How should this be saved? Should it be added to the current artifact?
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Report#getCurrentEntry()
 */
public Entry getCurrentEntry()
{
    // Return entry
    return this.currentEntry;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Report#getCurrentEntry()
 */
public void setCurrentEnvelopeEntry(Entry entry) throws WSIException
{
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#setCurrentEntry(org.wsi.test.report.Entry)
 */
public void setCurrentEntry(Entry entry) throws WSIException
{
}

```

```

// Save reference to entry
entryList.add(entry);

// Set as current entry
this.currentEntry = entry;
}

/**
 * Method getEntries.
 * @return entry list.
 */
public List getEntries()
{
    return entryList;
}

/**
 * Method getArtifacts.
 * @return artifacts.
 */
public List getArtifacts()
{
    return artifactList;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#endCurrentEntry()
 */
public void endCurrentEntry() throws WSIException
{
    // Remove current entry
    this.currentEntry = null;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#addAssertionResult(org.wsi.test.report.AssertionResult)
 */
public void addAssertionResult(AssertionResult assertionResult)
{
    // ADD: Need to keep just a summary

    // Add result to current entry
    if (currentEntry != null)
    {
        currentEntry.addAssertionResult(assertionResult);
    }

    // If the result was not passed, then set summary flag

```

```

if (assertionResult.getResult().equals(AssertionResult.RESULT_FAILED))
{
    allPassed = false;
}
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#getAssertionResult(java.lang.String)
 */
public AssertionResult getAssertionResult(String assertionId)
{
    AssertionResult result = null;

    // Determine where to get the assertion result from
    if (this.prereqType.equals(PREREQ_TYPE_ENTRY))
        result = currentEntry.getAssertionResult(assertionId);
    else
        result = currentEntry.getEntryContainer().getAssertionResult(assertionId);

    // the assertion result is not found at the current entry, going through all the entries
    if (result == null)
    {
        for (int i = 0; i < entryList.size(); i++)
        {
            Entry entry = (Entry) entryList.get(i);
            if ((result = entry.getAssertionResult(assertionId)) != null)
                break;
        }
    }
    return result;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#createAssertionResult()
 */
public AssertionResult createAssertionResult()
{
    AssertionResult assertionResult = new AssertionResultImpl();
    assertionResult.setAssertionResultsOption(
        reportContext
            .getAnalyzer()
            .getAnalyzerConfig()
            .getAssertionResultsOption());
    return assertionResult;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#createEntry()

```

```

*/
public Entry createEntry()
{
    Entry entry = new EntryImpl();
//entry.setAssertionResultsOption(reportContext.getAnalyzer().getAnalyzerConfig().getAssertionResultsOption());
return entry;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#createEntryContainer()
 */
public EntryContainer createEntryContainer()
{
    EntryContainer entryContainer = new EntryContainerImpl();
return entryContainer;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#createArtifact()
 */
public ReportArtifact createArtifact()
{
    ReportArtifact reportArtifact = new ReportArtifactImpl();
return reportArtifact;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#createFailureDetail()
 */
public FailureDetail createFailureDetail()
{
    FailureDetail failureDetail = new FailureDetailImpl();
return failureDetail;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Report#getSummaryResult()
 */
public String getSummaryResult()
{
    return (
        allPassed
        ? AssertionResult.RESULT_PASSED
        : AssertionResult.RESULT_FAILED);
}

/* (non-Javadoc)
 * @see org.wsi.test.report.BuildReport#setPrereqType(java.lang.String)

```

```

*/
public void setPrereqType(String prereqType)
{
    this.prereqType = prereqType;
}

/* (non-Javadoc)
 * @see java.lang.Object#toString()
 */
public String toString()
{
    // ADD:
    return "Report: ";
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Report#getStartXMLString(java.lang.String)
 */
public String getStartXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // Create report element
    pw.println(WSIConstants.XML_DECL);
    pw.println(
        reportContext
            .getAnalyzer()
            .getAnalyzerConfig()
            .getAddStyleSheet()
            .getStyleSheetString());

    // Add XML comment
    String comment;
    if ((comment = TestUtils.getXMLComment()) != null)
        pw.print(comment);

    // report
    pw.print(
        "<"
            + nsName
            + ELEM_NAME
            + " "
            + WSIConstants.ATTR_NAME

```



```

+ "=\""
+ reportContext.getReportTitle()
+ "\"";
pw.println(
" "
+ WSIConstants.ATTR_TIMESTAMP
+ "=\""
+ Utils.getTimestamp()
+ "\"");
pw.println(" xmlns=\"" + WSIConstants.NS_URI_WSI_REPORT + "\"");
pw.println(
" xmlns:"
+ WSIConstants.NS_NAME_WSI_REPORT
+ "=\""
+ WSIConstants.NS_URI_WSI_REPORT
+ "\"");
pw.println(
" xmlns:"
+ WSIConstants.NS_NAME_WSI_LOG
+ "=\""
+ WSIConstants.NS_URI_WSI_LOG
+ "\"");
//pw.println(" xmlns:" + WSIConstants.NS_NAME_WSI_COMMON + "=\"" +
WSIConstants.NS_URI_WSI_COMMON + "\"");
pw.println(
" xmlns:"
+ WSIConstants.NS_NAME_WSI_ANALYZER_CONFIG
+ "=\""
+ WSIConstants.NS_URI_WSI_ANALYZER_CONFIG
+ "\"");
pw.println(
" xmlns:"
+ WSIConstants.NS_NAME_WSI_MONITOR_CONFIG
+ "=\""
+ WSIConstants.NS_URI_WSI_MONITOR_CONFIG
+ "\"");
pw.println(
" xmlns:"
+ WSIConstants.NS_NAME_WSI_ASSERTIONS
+ "=\""
+ WSIConstants.NS_URI_WSI_ASSERTIONS
+ "\"");
pw.println(
" xmlns:"
+ WSIConstants.NS_NAME_XSI
+ "=\""
+ WSIConstants.NS_URI_XSI
+ "\">");

```

```

// Add analyzer tool info
pw.print(reportContext.getAnalyzer().toXMLString(nsName));

// Return XML string
return sw.toString();
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Report#getEndXMLString(java.lang.String)
 */
public String getEndXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // Build summary
    pw.print(" <" + nsName + WSIConstants.ELEM_SUMMARY + " ");
    pw.println(WSIConstants.ATTR_RESULT + "=\"\" + getSummaryResult() + \">");

    // ADD: Detail summary
    /*
    pw.print(" <" + nsName + WSIConstants.ELEM_ARTIFACT_SUMMARY + " ");
    pw.println(WSIConstants.ATTR_RESULT + "=\"xxxx\">");

    pw.println(" </" + nsName + WSIConstants.ELEM_ARTIFACT_SUMMARY + ">");
    */

    // End element
    pw.println(" </" + nsName + WSIConstants.ELEM_SUMMARY + ">");

    // End report element
    pw.println("</" + nsName + ELEM_NAME + ">");

    // Return XML string
    return sw.toString();
}

/* (non-Javadoc)
 * @see org.wsi.test.report.Report#getErrorXMLString(java.lang.String, java.lang.String)
 */
public String getErrorXMLString(String namespaceName, String errorDetail)
{
    StringWriter sw = new StringWriter();

```

```

PrintWriter pw = new PrintWriter(sw);

String nsName = namespaceName;
if ((!nsName.equals("") && (!nsName.endsWith(":"))))
    nsName += ":";

// Build analyzer failure
pw.println(" <" + nsName + WSIConstants.ELEM_ANALYZER_FAILURE + ">");

// Add error detail
pw.print(" <" + nsName + WSIConstants.ELEM_FAILURE_DETAIL + ">");
pw.print(XMLUtils.xmlEscapedString(errorDetail));
pw.println(" </" + nsName + WSIConstants.ELEM_FAILURE_DETAIL + ">");

// End report element
pw.println("</" + nsName + WSIConstants.ELEM_ANALYZER_FAILURE + ">");

// End report element
pw.println("</" + nsName + ELEM_NAME + ">");

// Return XML string
return sw.toString();
}

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentElement#toXMLString(java.lang.String)
 */
public String toXMLString(String namespaceName)
{
    return getStartXMLString(namespaceName) + getEndXMLString(namespaceName);
}
}

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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 * IBM - Initial API and implementation
 *****/
package org.eclipse.wst.wsi.internal.core.report.impl;

import java.io.PrintWriter;
import java.io.StringWriter;

import org.eclipse.wst.wsi.internal.core.WSIConstants;

```

```

import org.eclipse.wst.wsi.internal.core.report.FailureDetail;
import org.eclipse.wst.wsi.internal.core.xml.dom.ElementLocation;

import com.ibm.wsdl.util.xml.DOMUtils;

/**
 * This class will ...
 *
 * @author Peter Brittenham (peterbr@us.ibm.com)
 * @version 1.0.1
 */
public class FailureDetailImpl implements FailureDetail
{
    protected String failureMessage = null;
    protected String referenceType = null;
    protected String referenceID = null;
    protected ElementLocation elementLocation = null;

    /** (non-Javadoc)
     * @see org.wsi.test.report.FailureDetail#getFailureMessage()
     */
    public String getFailureMessage()
    {
        return this.failureMessage;
    }

    /** (non-Javadoc)
     * @see org.wsi.test.report.FailureDetail#setFailureMessage(String)
     */
    public void setFailureMessage(String failureMessage)
    {
        this.failureMessage = failureMessage;
    }

    /** (non-Javadoc)
     * @see org.wsi.test.report.FailureDetail#getReferenceType()
     */
    public String getReferenceType()
    {
        return this.referenceType;
    }

    /** (non-Javadoc)
     * @see org.wsi.test.report.FailureDetail#setReferenceType(String)
     */
    public void setReferenceType(String referenceType)
    {
        this.referenceType = referenceType;
    }

```

```

}

/* (non-Javadoc)
 * @see org.wsi.test.report.FailureDetail#getReferenceID()
 */
public String getReferenceID()
{
    return this.referenceID;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.FailureDetail#setReferenceIDn(String)
 */
public void setReferenceIDn(String referenceID)
{
    this.referenceID = referenceID;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.FailureDetail#getElementLocation()
 */
public ElementLocation getElementLocation()
{
    return this.elementLocation;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.FailureDetail#setElementLocation(ElementLocation)
 */
public void setElementLocation(ElementLocation elementLocation)
{
    this.elementLocation = elementLocation;
}

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentElement#toXMLString(String)
 */
public String toXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // Create element
    pw.print("    <" + nsName + ELEM_NAME + " xml:lang=\"en\" ");

```

```

if (this.referenceType != null)
    pw.print(
        WSIConstants.ATTR_REFERENCE_TYPE + "=\"" + this.referenceType + "\" ");

if (this.referenceID != null)
    pw.print(
        WSIConstants.ATTR_REFERENCE_ID + "=\"" + this.referenceID + "\" ");

// ADD: Need to use a different namespace
/*
if (this.elementLocation != null) {
    String nsNameExt = "reportext";
    pw.print("xmlns:" + nsNameExt + "=\"" + WSIConstants.NS_URI_WSI_REPORT + "/ext\""");
    pw.print(nsNameExt + ":" + WSIConstants.ATTR_LINE_NUMBER + "=\"" +
this.elementLocation.getLineNumber() + "\" ");
    pw.print(nsNameExt + ":" + WSIConstants.ATTR_COLUMN_NUMBER + "=\"" +
this.elementLocation.getColumnNumber() + "\" ");
}
*/

// Close start element
pw.print(">");

if (this.failureMessage != null)
    pw.println(DOMUtils.cleanString(this.failureMessage));

if (this.elementLocation != null)
{
    pw.println(" ");
    pw.print(this.elementLocation.toString());
}

// End the element
pw.println(" </" + nsName + ELEM_NAME + ">");

// Return string
return sw.toString();
}

}

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* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
*/

```

```

* Contributors:
* IBM - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.report.impl;

import java.io.PrintWriter;
import java.io.StringWriter;
import java.util.Iterator;
import java.util.Vector;

import org.eclipse.wst.wsi.internal.core.WSIConstants;
import org.eclipse.wst.wsi.internal.core.analyzer.config.AssertionResultsOption;
import org.eclipse.wst.wsi.internal.core.analyzer.config.impl.AssertionResultsOptionImpl;
import org.eclipse.wst.wsi.internal.core.profile.TestAssertion;
import org.eclipse.wst.wsi.internal.core.report.AssertionResult;
import org.eclipse.wst.wsi.internal.core.report.Entry;
import org.eclipse.wst.wsi.internal.core.report.FailureDetail;
import org.eclipse.wst.wsi.internal.core.report.PrereqFailedList;

import com.ibm.wsdl.util.xml.DOMUtils;

/**
 * Test assertion result.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class AssertionResultImpl implements AssertionResult
{
    /**
     * Assertion result.
     */
    protected String result = null;

    /**
     * Entry.
     */
    protected Entry entry = null;

    /**
     * Profile test assertion.
     */
    protected TestAssertion testAssertion = null;

    /**
     * Failure detail messages.
     */
    protected Vector failureDetailList = null;

```

```

/**
 * Assertion results option.
 */
protected AssertionResultsOption assertionResultsOption =
    new AssertionResultsOptionImpl();

/**
 * Prereq failed list.
 */
protected PrereqFailedList prereqFailedList = null;

/**
 * Create a new assertion result.
 */
public AssertionResultImpl()
{
}

/* (non-Javadoc)
 * @see org.wsi.test.report.AssertionResult#getResult()
 */
public String getResult()
{
    return this.result;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.AssertionResult#setResult(java.lang.String)
 */
public void setResult(String result)
{
    this.result = result;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.AssertionResult#getAssertion()
 */
public TestAssertion getAssertion()
{
    return this.testAssertion;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.AssertionResult#setAssertion(org.wsi.test.profile.TestAssertion)
 */
public void setAssertion(TestAssertion testAssertion)
{
}

```



```

    this.testAssertion = testAssertion;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.AssertionResult#getEntry()
 */
public Entry getEntry()
{
    return this.entry;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.AssertionResult#setEntry(org.wsi.test.report.Entry)
 */
public void setEntry(Entry entry)
{
    this.entry = entry;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.AssertionResult#getFailureDetailList()
 */
public Vector getFailureDetailList()
{
    return this.failureDetailList;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.AssertionResult#setFailureDetailList(java.util.Vector)
 */
public void setFailureDetailList(Vector failureDetailList)
{
    this.failureDetailList = failureDetailList;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.AssertionResult#getAssertionResultsOption()
 */
public AssertionResultsOption getAssertionResultsOption()
{
    return this.assertionResultsOption;
}

/* (non-Javadoc)
 * @see
org.wsi.test.report.AssertionResult#setAssertionResultsOption(org.wsi.test.analyzer.config.AssertionResultsOption)
 */
public void setAssertionResultsOption(AssertionResultsOption assertionResultsOption)

```

```

{
    this.assertionResultsOption = assertionResultsOption;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.AssertionResult#getPrereqFailedList()
 */
public PrereqFailedList getPrereqFailedList()
{
    return this.prereqFailedList;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.AssertionResult#setPrereqFailedList(org.wsi.test.report.PrereqFailedList)
 */
public void setPrereqFailedList(PrereqFailedList prereqFailedList)
{
    this.prereqFailedList = prereqFailedList;
}

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentElement#toXMLString(java.lang.String)
 */
public String toXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // Create element
    pw.print("    <" + nsName + ELEM_NAME + " ");
    pw.print(WSIConstants.ATTR_ID + "=\"" + this.testAssertion.getId() + "\" ");
    pw.println(WSIConstants.ATTR_RESULT + "=\"" + this.result + "\">");

    // ADD: Add support for additional targets

    // Add prereq failed list
    if (this.prereqFailedList != null)
    {
        pw.print(prereqFailedList.toXMLString(nsName));
    }

    // ADD: Add support for multiple languages
    // If result is failed or warning, then add failure message
    if ((result.equals(RESULT_FAILED) || result.equals(RESULT_WARNING))

```

```

    && (assertionResultsOption.getShowFailureMessage()))
    {
    pw.print(
        "    <"
        + nsName
        + WSIConstants.ELEM_FAILURE_MESSAGE
        + " xml:lang=\"en\">");
    pw.print(DOMUtils.cleanString(this.testAssertion.getFailureMessage()));
    pw.println("</" + nsName + WSIConstants.ELEM_FAILURE_MESSAGE + ">");
    }

    // ADD: Add support for multiple languages
    // If any failure detail messages were specified, then add them
    if ((failureDetailList != null)
        && (assertionResultsOption.getShowFailureDetail()))
    {
    Iterator iterator = failureDetailList.iterator();
    while (iterator.hasNext())
    {
    pw.print(((FailureDetail) iterator.next()).toXMLString(nsName));
    }
    }

    // End the element
    pw.println("    </" + nsName + ELEM_NAME + ">");

    // Return string
    return sw.toString();
}

/* (non-Javadoc)
 * @see java.lang.Object#toString()
 */
public String toString()
{
    return result;
}

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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 * IBM - Initial API and implementation
 *****/

```

```

package org.eclipse.wst.wsi.internal.core.report.impl;

import java.io.PrintWriter;
import java.io.StringWriter;
import java.util.TreeMap;

import org.eclipse.wst.wsi.internal.core.WSIConstants;
import org.eclipse.wst.wsi.internal.core.report.Entry;
import org.eclipse.wst.wsi.internal.core.report.ReportArtifact;
import org.eclipse.wst.wsi.internal.core.util.ArtifactType;

/**
 * This class contains a report artifact.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class ReportArtifactImpl implements ReportArtifact
{
    /**
     * Artifact type.
     */
    protected ArtifactType artifactType = null;

    /**
     * Entries.
     */
    protected TreeMap entryList = new TreeMap();

    /** (non-Javadoc)
     * @see org.wsi.test.report.ReportArtifact#getType()
     */
    public ArtifactType getType()
    {
        return this.artifactType;
    }

    /** (non-Javadoc)
     * @see org.wsi.test.report.ReportArtifact#setType(ArtifactType)
     */
    public void setType(ArtifactType artifactType)
    {
        this.artifactType = artifactType;
    }

    /** (non-Javadoc)
     * @see org.wsi.test.report.ReportArtifact#addEntry(Entry)
     */

```

```

public void addEntry(Entry entry)
{
    // Add entry
    if (entry.getEntryType() != null)
        this.entryList.put(entry.getEntryType().getTypeName(), entry);
}

/* (non-Javadoc)
 * @see org.wsi.test.report.ReportArtifact#getEntryList()
 */
public TreeMap getEntryList()
{
    return this.entryList;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.ReportArtifact#getStartXMLString(String)
 */
public String getStartXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // Create element
    pw.print(" <" + nsName + ELEM_NAME + " ");
    pw.print(
        WSIConstants.ATTR_TYPE + "=\"" + this.artifactType.getTypeName() + "\">");

    return sw.toString();
}

/* (non-Javadoc)
 * @see org.wsi.test.report.ReportArtifact#getEndXMLString(String)
 */
public String getEndXMLString(String namespaceName)
{
    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    return " </" + nsName + ELEM_NAME + ">";
}

/* (non-Javadoc)

```

```

* @see org.wsi.test.document.DocumentElement#toXMLString(String)
*/
public String toXMLString(String namespaceName)
{
    // Return string
    return getStartXMLString("") + getEndXMLString("");
}

}

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* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* IBM - Initial API and implementation
* Parasoft - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.report.impl;

import org.eclipse.wst.wsi.internal.core.report.EntryContainer;

/**
* This class represents a container for one or more entries.
* An example would be a WSDL document.
*
* @author Peter Brittenham (peterbr@us.ibm.com)
* @version 1.0.1
*/
public class EntryContainerImpl
extends EntryResultImpl
implements EntryContainer
{
    /**
    * Container ID.
    */
    protected String id;

    /** (non-Javadoc)
    * @see org.wsi.test.report.EntryContainer#getId()
    */
    public String getId()
    {
        return this.id;
    }
}

```

```

/* (non-Javadoc)
 * @see org.wsi.test.report.EntryContainer#setId(String)
 */
public void setId(String id)
{
    this.id = id;
}

/**
 * Return string representation of this object.
 */
public String toString()
{
    return "[" + this.id + "]" + this.assertionResultList;
}

}

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 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 * IBM - Initial API and implementation
 *****/
package org.eclipse.wst.wsi.internal.core.report.impl;

import java.util.TreeMap;

import org.eclipse.wst.wsi.internal.core.report.AssertionResult;
import org.eclipse.wst.wsi.internal.core.report.EntryResult;

/**
 * Result for a specific test assertion.
 *
 * @author Peter Brittenham (peterbr@us.ibm.com)
 * @version 1.0.1
 */
public abstract class EntryResultImpl implements EntryResult
{
    /**
     * Assertion result list.
     */
    protected TreeMap assertionResultList = new TreeMap();

    /* (non-Javadoc)

```

```

* @see org.wsi.test.report.EntryResult#addAssertionResult(org.wsi.test.report.AssertionResult)
*/
public void addAssertionResult(AssertionResult assertionResult)
{
    this.assertionResultList.put(
        assertionResult.getAssertion().getId(),
        assertionResult);
}

/* (non-Javadoc)
* @see org.wsi.test.report.EntryResult#getAssertionResultList()
*/
public TreeMap getAssertionResultList()
{
    return assertionResultList;
}

/* (non-Javadoc)
* @see org.wsi.test.report.EntryResult#getAssertionResult(String)
*/
public AssertionResult getAssertionResult(String assertionId)
{
    return (AssertionResult) assertionResultList.get(assertionId);
}
}

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* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* IBM - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.report.impl;

import java.io.PrintWriter;
import java.io.StringWriter;

import org.eclipse.wst.wsi.internal.core.WSIConstants;
import org.eclipse.wst.wsi.internal.core.document.DocumentElement;
import org.eclipse.wst.wsi.internal.core.report.ArtifactReference;

/**
* An artifact reference.
*
* @version 1.0.1

```



```

* @author Peter Brittenham (peterbr@us.ibm.com)
*/
public class ArtifactReferenceImpl implements ArtifactReference
{
/**
 * Timestamp.
 */
protected String timestamp = null;

/**
 * Optional document element.
 */
protected DocumentElement documentElement = null;

/**
 * Optional document element namespace name.
 */
protected String elementNamespaceName = null;

/* (non-Javadoc)
 * @see org.wsi.test.report.ArtifactReference#getTimestamp()
 */
public String getTimestamp()
{
    return this.timestamp;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.ArtifactReference#setTimestamp(String)
 */
public void setTimestamp(String timestamp)
{
    this.timestamp = timestamp;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.ArtifactReference#getDocumentElement()
 */
public DocumentElement getDocumentElement()
{
    return this.documentElement;
}

/* (non-Javadoc)
 * @see org.wsi.test.report.ArtifactReference#setDocumentElement(DocumentElement, String)
 */
public void setDocumentElement(
    DocumentElement documentElement,

```

```

String namespaceName)
{
    this.documentElement = documentElement;
    this.elementNamespaceName = namespaceName;
}

/* (non-Javadoc)
 * Get string representation of this object.
 */
public String toString()
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    pw.println(" Artifact Reference: ");
    pw.println(" timestamp ..... " + this.timestamp);

    if (this.documentElement != null)
        pw.println(
            " documentElement ..... "
            + this.documentElement.toXMLString(this.elementNamespaceName));

    return sw.toString();
}

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentElement#toXMLString(String)
 */
public String toXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // Create element
    pw.print("<" + nsName + ELEM_NAME + " ");
    pw.println(WSIConstants.ATTR_TIMESTAMP + "=\"" + getTimestamp() + "\">");

    // If there is a document element, then add it
    if (this.documentElement != null)
    {
        pw.print(documentElement.toXMLString(this.elementNamespaceName));
    }

    // End element

```

```

        pw.println(" </" + nsName + ELEM_NAME + ">");

        return sw.toString();
    }

}

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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 * IBM - Initial API and implementation
 *****/
package org.eclipse.wst.wsi.internal.core.common.impl;

import java.io.PrintWriter;
import java.io.StringWriter;
import java.util.TreeMap;

import org.eclipse.wst.wsi.internal.core.WSIConstants;
import org.eclipse.wst.wsi.internal.core.common.AddStyleSheet;

/**
 * The implementation for AddStyleSheet element.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class AddStyleSheetImpl implements AddStyleSheet
{
    /**
     * Attribute values.
     */
    protected TreeMap attributeValueList = new TreeMap();

    /**
     * List of attributes.
     */
    protected String[] attributeNameList =
    {
        WSIConstants.ATTR_HREF,
        WSIConstants.ATTR_TYPE,
        WSIConstants.ATTR_TITLE,
        WSIConstants.ATTR_MEDIA,
        WSIConstants.ATTR_CHARSET,
    }
}

```

```

        WSIConstants.ATTR_ALTERNATE };

/**
 * Set if the style sheet declaration should be a comment.
 */
protected boolean comment = false;

/** (non-Javadoc)
 * @see org.wsi.test.common.AddStyleSheet#getHref()
 */
public String getHref()
{
    return (String) this.attributeValueList.get(WSIConstants.ATTR_HREF);
}

/** (non-Javadoc)
 * @see org.wsi.test.common.AddStyleSheet#setHref(String)
 */
public void setHref(String href)
{
    this.attributeValueList.put(WSIConstants.ATTR_HREF, href);
}

/** (non-Javadoc)
 * @see org.wsi.test.common.AddStyleSheet#getType()
 */
public String getType()
{
    return (String) this.attributeValueList.get(WSIConstants.ATTR_TYPE);
}

/** (non-Javadoc)
 * @see org.wsi.test.common.AddStyleSheet#setType(String)
 */
public void setType(String type)
{
    this.attributeValueList.put(WSIConstants.ATTR_TYPE, type);
}

/** (non-Javadoc)
 * @see org.wsi.test.common.AddStyleSheet#getTitle()
 */
public String getTitle()
{
    return (String) this.attributeValueList.get(WSIConstants.ATTR_TITLE);
}

/** (non-Javadoc)

```

```

    * @see org.wsi.test.common.AddStyleSheet#setTitle(String)
    */
public void setTitle(String title)
{
    this.attributeValueList.put(WSIConstants.ATTR_TITLE, title);
}

/* (non-Javadoc)
 * @see org.wsi.test.common.AddStyleSheet#getMedia()
 */
public String getMedia()
{
    return (String) this.attributeValueList.get(WSIConstants.ATTR_MEDIA);
}

/* (non-Javadoc)
 * @see org.wsi.test.common.AddStyleSheet#setMedia(String)
 */
public void setMedia(String media)
{
    this.attributeValueList.put(WSIConstants.ATTR_MEDIA, media);
}

/* (non-Javadoc)
 * @see org.wsi.test.common.AddStyleSheet#getCharset()
 */
public String getCharset()
{
    return (String) this.attributeValueList.get(WSIConstants.ATTR_CHARSET);
}

/* (non-Javadoc)
 * @see org.wsi.test.common.AddStyleSheet#setCharset(String)
 */
public void setCharset(String charset)
{
    this.attributeValueList.put(WSIConstants.ATTR_CHARSET, charset);
}

/* (non-Javadoc)
 * @see org.wsi.test.common.AddStyleSheet#getAlternate()
 */
public String getAlternate()
{
    return (String) this.attributeValueList.get(WSIConstants.ATTR_ALTERNATE);
}

/* (non-Javadoc)

```

```

    * @see org.wsi.test.common.AddStyleSheet#setAlternate(String)
    */
public void setAlternate(String alternate)
{
    this.attributeValueList.put(WSIConstants.ATTR_ALTERNATE, alternate);
}

/* (non-Javadoc)
 * Set if the style sheet declaration should be a comment.
 */
public void setComment(boolean comment)
{
    this.comment = comment;
}

/* (non-Javadoc)
 * @see org.wsi.test.common.AddStyleSheet#getStyleSheetString()
 */
public String getStyleSheetString()
{
    StringBuffer styleSheet = new StringBuffer();

    if (comment)
        styleSheet.append("<!-- ");

    styleSheet.append("<?xml-stylesheet");

    String value;
    for (int i = 0; i < attributeNameList.length; i++)
    {
        if ((value = (String) attributeValueList.get(attributeNameList[i]))
            != null)
            styleSheet.append(" " + attributeNameList[i] + "=\\" + value + "\\");
    }

    // End element
    styleSheet.append(" ?>");

    if (comment)
        styleSheet.append(" -->");

    return styleSheet.toString();
}

/**
 * Get string representation of this object.
 */
public String toString()

```

```

{
    return getStyleSheetString();
}

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentElement#toXMLString(String)
 */
public String toXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // Config options
    pw.print("  <" + nsName + ELEM_NAME + " ");
    pw.print(WSIConstants.ATTR_HREF + "=\"" + getHref() + "\" ");
    pw.print(WSIConstants.ATTR_TYPE + "=\"" + getType() + "\" ");
    if (getTitle() != null)
        pw.print(WSIConstants.ATTR_TITLE + "=\"" + getTitle() + "\" ");
    if (getMedia() != null)
        pw.print(WSIConstants.ATTR_MEDIA + "=\"" + getMedia() + "\" ");
    if (getCharset() != null)
        pw.print(WSIConstants.ATTR_CHARSET + "=\"" + getCharset() + "\" ");
    if (getAlternate() != null)
        pw.print(WSIConstants.ATTR_ALTERNATE + "=\"" + getAlternate() + "\" ");
    pw.println("/>");

    return sw.toString();
}

}

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 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 * IBM - Initial API and implementation
 *****/
package org.eclipse.wst.wsi.internal.core.log.impl;

import java.io.PrintWriter;
import java.io.StringWriter;

```

```

import java.util.Collection;
import java.util.Iterator;

import org.eclipse.wst.wsi.internal.core.WSConstants;
import org.eclipse.wst.wsi.internal.core.log.MessageEntry;
import org.eclipse.wst.wsi.internal.core.log.MimePart;
import org.eclipse.wst.wsi.internal.core.log.MimeParts;
import org.eclipse.wst.wsi.internal.core.xml.XMLUtils;
import org.eclipse.wst.wsi.internal.core.xml.dom.ElementLocation;

/**
 * Message entry implementation.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class MessageEntryImpl implements MessageEntry
{
    /**
     * Log entry id.
     */
    protected String id;

    protected String conversationId;
    protected String type;
    protected String timestamp;
    protected String senderHostAndPort;
    protected String receiverHostAndPort;
    protected String message = "";
    protected String httpHeaders = "";
    protected int bom;
    protected String encoding = "";
    protected boolean isMimeContent = false;
    protected MimeParts mimeParts = new MimePartsImpl();

    protected ElementLocation elementLocation = null;

    /**
     * Empty constructor.
     */
    public MessageEntryImpl()
    {
    }

    /** (non-Javadoc)
     * @see org.wsi.test.log.LogEntry#getId()
     */
    public String getId()

```



```

{
    return this.id;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#setId(String)
 */
public void setId(String id)
{
    this.id = id;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#getConversationId()
 */
public String getConversationId()
{
    return this.conversationId;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#setConversationId(String)
 */
public void setConversationId(String conversationId)
{
    this.conversationId = conversationId;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#getTimestamp()
 */
public String getTimestamp()
{
    return this.timestamp;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#setTimestamp(String)
 */
public void setTimestamp(String timestamp)
{
    this.timestamp = timestamp;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#getType()
 */
public String getType()

```

```

{
    return this.type;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#setType(String)
 */
public void setType(String type)
{
    this.type = type;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#getSenderHostAndPort()
 */
public String getSenderHostAndPort()
{
    return this.senderHostAndPort;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#setSenderHostAndPort(String)
 */
public void setSenderHostAndPort(String senderHostAndPort)
{
    this.senderHostAndPort = senderHostAndPort;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#getReceiverHostAndPort()
 */
public String getReceiverHostAndPort()
{
    return this.receiverHostAndPort;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#setReceiverHostAndPort(String)
 */
public void setReceiverHostAndPort(String receiverHostAndPort)
{
    this.receiverHostAndPort = receiverHostAndPort;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#getMessage()
 */
public String getMessage()

```

```

{
if (!this.isMimeContent)
    return this.message;
else
{
    if (this.mimeParts.getRootPart() == null) return "";
    else return this.mimeParts.getRootPart().getContent();
}
}

```

```

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#setMessage(String)
 */
public void setMessage(String message)
{
    this.message = message;
}

```

```

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#setEncoding(String)
 */
public void setEncoding(String encoding)
{
    this.encoding = encoding;
}

```

```

/* (non-Javadoc)
 * @see org.wsi.test.log.MessageEntry#getBOM()
 */
public int getBOM()
{
    return bom;
}

```

```

/* (non-Javadoc)
 * @see org.wsi.test.log.MessageEntry#setBOM(int)
 */
public void setBOM(int bom)
{
    this.bom = bom;
}

```

```

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#getHTTPHeaders()
 */
public String getHTTPHeaders()
{
    return this.httpHeaders;
}

```

```

}

/* (non-Javadoc)
 * @see org.wsi.test.log.LogEntry#setHTTPHeaders(String)
 */
public void setHTTPHeaders(String httpHeaders)
{
    this.httpHeaders = httpHeaders;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.MessageEntry#getElementLocation()
 */
public ElementLocation getElementLocation()
{
    return this.elementLocation;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.MessageEntry#setElementLocation(org.wsi.xml.dom.ElementLocation)
 */
public void setElementLocation(ElementLocation elementLocation)
{
    this.elementLocation = elementLocation;
}

/**
 * Get string representation of this object.
 */
public String toString()
{
    return toXMLString(WSIConstants.NS_NAME_WSI_LOG);
}

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentElement#toXMLString(String)
 */
public String toXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // ADD: Need to add way to indicate XML schema type for logEntry
    // Add log entry

```

```

pw.print("<" + nsName + ELEM_NAME + " ");
pw.print(
    "xsi:type=\"httpMessageEntry\" ");
pw.print(WSIConstants.ATTR_ID_UC + "=\"" + id + "\" ");
pw.print(
    WSIConstants.ATTR_CONVERSATION_ID + "=\"" + conversationId + "\" ");
pw.print(WSIConstants.ATTR_TYPE + "=\"" + type + "\" ");
pw.println(WSIConstants.ATTR_TIMESTAMP + "=\"" + timestamp + "\">");

if (isMimeContent())
{
    // Add message content with attachments element
    pw.print("<" + nsName + WSIConstants.ELEM_MESSAGE_CONTENT_WITH_ATTACHMENTS);
    if (bom != 0)
        pw.print(" " + WSIConstants.ATTR_BOM + "=\"" + bom + "\"");
    pw.print(">");

    Collection partList = mimeParts.getParts();
    if (!partList.isEmpty())
    {
        Iterator iMimeParts = partList.iterator();
        while (iMimeParts.hasNext())
        {
            MimePart mimePart = (MimePart)iMimeParts.next();
            pw.print(mimePart.toXMLString(namespaceName));
        }
    }

    // Add end message element
    pw.println("</" + nsName + WSIConstants.ELEM_MESSAGE_CONTENT_WITH_ATTACHMENTS + ">");
}
else
{
    // Add message content element
    pw.print("<" + nsName + WSIConstants.ELEM_MESSAGE_CONTENT);
    if (bom != 0)
        pw.print(" " + WSIConstants.ATTR_BOM + "=\"" + bom + "\"");
    pw.print(">");

    // Add encoded message
    pw.print(XMLUtils.xmlEscapedString(message));

    // Add end message element
    pw.println("</" + nsName + WSIConstants.ELEM_MESSAGE_CONTENT + ">");
}

// Add senderIPPort element
pw.println(

```

```

"<"
+ nsName
+ WSIConstants.ELEM_SENDER_HOST_AND_PORT
+ ">"
+ senderHostAndPort
+ "</"
+ nsName
+ WSIConstants.ELEM_SENDER_HOST_AND_PORT
+ ">");

// Add receiverIP element
pw.println(
"<"
+ nsName
+ WSIConstants.ELEM_RECEIVER_HOST_AND_PORT
+ ">"
+ receiverHostAndPort
+ "</"
+ nsName
+ WSIConstants.ELEM_RECEIVER_HOST_AND_PORT
+ ">");

// Add HTTPHeaders element
pw.print("<" + nsName + WSIConstants.ELEM_HTTP_HEADERS + ">");

// ADD: Does this string need to be XML encoded?
// Add HTTP headers
pw.print(XMLUtils.xmlEscapedString(httpHeaders));

// End HTTPHeaders element
pw.println("</" + nsName + WSIConstants.ELEM_HTTP_HEADERS + ">");

// End log entry
pw.println("</" + nsName + ELEM_NAME + ">");

// Return string
return sw.toString();
}

/* (non-Javadoc)
 * @see org.wsi.test.log.MessageEntry#isMimeContent()
 */
public boolean isMimeContent()
{
    return isMimeContent;
}

/* (non-Javadoc)

```

```

    * @see org.wsi.test.log.MessageEntry#setMimeContent()
    */
    public void setMimeContent(boolean isMimeContent)
    {
        this.isMimeContent = isMimeContent;
    }

    /* (non-Javadoc)
    * @see org.wsi.test.log.MessageEntry#getMIMEParts()
    */
    public MimeParts getMimeParts()
    {
        return mimeParts;
    }

    /* (non-Javadoc)
    * @see org.wsi.test.log.MessageEntry#setMimeParts()
    */
    public void setMimeParts(MimeParts mimeParts)
    {
        this.mimeParts = mimeParts;
    }
}

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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 * IBM - Initial API and implementation
 *****/
package org.eclipse.wst.wsi.internal.core.log.impl;

import java.io.PrintWriter;
import java.io.StringWriter;
import java.util.Vector;

import org.eclipse.wst.wsi.internal.core.WSIConstants;
import org.eclipse.wst.wsi.internal.core.WSIException;
import org.eclipse.wst.wsi.internal.core.log.Log;
import org.eclipse.wst.wsi.internal.core.log.MessageEntry;
import org.eclipse.wst.wsi.internal.core.util.TestUtils;
import org.eclipse.wst.wsi.internal.core.util.Utils;

/**

```

```

* This class represents the message log file.
*
* @version 1.0.1
* @author Peter Brittenham (peterbr@us.ibm.com)
*/
public class LogImpl implements Log
{
/**
* Log URI.
*/
protected String logURI = null;

/**
* Start time stamp.
*/
protected String startTimestamp = null;

/**
* Log entries.
*/
protected Vector logEntryList = new Vector();

/**
* Last log entry.
*/
protected MessageEntry lastLogEntry = null;

/**
* Log title.
*/
// ADD: Should we provide a way to set the log title?
protected String logTitle = "Message Log File";

/**
* Style sheet string.
*/
protected String styleSheetString = null;

/**
* @see org.eclipse.wst.wsi.internal.core.log.Log#addLogEntry(LogEntry)
*/
public void addLogEntry(MessageEntry logEntry) throws WSIException
{
// Save last log entry
lastLogEntry = logEntry;

// Add log entry
logEntryList.add(logEntry);
}
}

```



```

}

/**
 * @see org.eclipse.wst.wsi.internal.core.log.Log#getEntryCount()
 */
public int getEntryCount()
{
    return logEntryList.size();
}

/**
 * @see org.eclipse.wst.wsi.internal.core.log.Log#getLogEntry(int)
 */
public MessageEntry getLogEntry(int index)
{
    return (MessageEntry) logEntryList.elementAt(index);
}

/**
 * @see org.eclipse.wst.wsi.internal.core.log.Log#getLogEntryList()
 */
public Vector getLogEntryList()
{
    return logEntryList;
}

/**
 * Get last log entry.
 */
public MessageEntry getLastLogEntry()
{
    return lastLogEntry;
}

/**
 * Create log entry object.
 */
public MessageEntry createLogEntry()
{
    return new MessageEntryImpl();
}

/**
 * @see org.eclipse.wst.wsi.internal.core.document.WSIDocument#getLocation()
 */
public String getLocation()
{
    return this.logURI;
}

```

```

}

/**
 * @see org.eclipse.wst.wsi.internal.core.document.WSIDocument#setLocation(String)
 */
public void setLocation(String documentURI)
{
    this.logURI = documentURI;
}

/**
 * Set style sheet string.
 */
public void setStyleSheetString(String styleSheetString)
{
    this.styleSheetString = styleSheetString;
}

/**
 * Get start element string.
 */
public String getStartXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // Create report element
    pw.println(WSIConstants.XML_DECL);
    if (this.styleSheetString != null)
        pw.println(this.styleSheetString);

    // Add XML comment
    String comment;
    if ((comment = TestUtils.getXMLComment()) != null)
        pw.print(comment);

    // Log
    pw.print("<" + nsName + ELEM_NAME);

    // REMOVED: No longer required by the monitor spec
    //pw.print(" " + WSIConstants.ATTR_NAME + "=\"" + logTitle + "\"");
    pw.println(
        " " + WSIConstants.ATTR_TIMESTAMP + "=\"" + Utils.getTimestamp() + "\"");
    pw.println(" xmlns=\"" + WSIConstants.NS_URI_WSI_LOG + "\"");
}

```

```

pw.println(
    " xmlns:"
    + WSIConstants.NS_NAME_WSI_MONITOR_CONFIG
    + "=\""
    + WSIConstants.NS_URI_WSI_MONITOR_CONFIG
    + "\"");
//pw.println(" xmlns:" + WSIConstants.NS_NAME_WSI_COMMON + "=\"" +
// WSIConstants.NS_URI_WSI_COMMON + "\"");
pw.println(
    " xmlns:"
    + WSIConstants.NS_NAME_XSI
    + "=\""
    + WSIConstants.NS_URI_XSI
    + "\">");

// Add monitor tool info
//pw.println(monitor.toXMLString(nsName));

// Return XML string
return sw.toString();
}

/**
 * Get end element string.
 */
public String getEndXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // End log element
    pw.println("</" + nsName + ELEM_NAME + ">");

    // Return XML string
    return sw.toString();
}

/**
 * @see org.eclipse.wst.wsi.internal.core.document.DocumentElement#toXMLString(String)
 */
public String toXMLString(String namespaceName)
{
    // ADD:
    return null;
}

```

```

}

}
/*****
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* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* IBM - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.log.impl;

import java.io.Writer;

import org.eclipse.wst.wsi.internal.core.WSException;
import org.eclipse.wst.wsi.internal.core.document.impl.DocumentWriterImpl;
import org.eclipse.wst.wsi.internal.core.log.Log;
import org.eclipse.wst.wsi.internal.core.log.LogWriter;

/**
 * Defines the implementation used to write the Log file.
 *
 * @version 1.0.1
 * @author Neil Delima (nddelima@ca.ibm.com)
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class LogWriterImpl extends DocumentWriterImpl implements LogWriter
{
    /**
     * @see org.eclipse.wst.wsi.internal.core.log.LogWriter#write(Log)
     */
    public synchronized void write(Log log)
        throws IllegalStateException, WSException
    {
        // If the writer was not specified, then throw an exception
        if (writer == null)
            throw new IllegalStateException("Could not write log file since writer was not set.");

        // Write log file
        write(log, writer);
    }

    /**
     * @see org.eclipse.wst.wsi.internal.core.log.LogWriter#write(Log, Writer)
     */

```

```

public synchronized void write(Log log, Writer writer) throws WSIException
{
    // ADD:
    throw new WSIException("Write entire log file function not supported yet.");
}
}
/*****
* Copyright (c) 2002-2005 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* IBM - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.log.impl;

import java.util.ArrayList;
import java.util.Collection;

import org.eclipse.wst.wsi.internal.core.log.MimePart;
import org.eclipse.wst.wsi.internal.core.log.MimeParts;

/**
 * MimePartsImpl class.
 *
 * @version 1.0.1
 * @author David Lauzon (lauzond@ca.ibm.com)
 */
public class MimePartsImpl implements MimeParts
{

    protected MimePart rootPart;
    protected Collection mimeParts = new ArrayList();

    public MimePartsImpl()
    {

    }

    /** (non-Javadoc)
     * @see org.wsi.test.log.MimeParts#getRootPart()
     */
    public MimePart getRootPart()
    {
        return rootPart;
    }
}

```

```

/* (non-Javadoc)
 * @see org.wsi.test.log.MimeParts#setRootPart(MimePart)
 */
public void setRootPart(MimePart rootPart)
{
    this.rootPart = rootPart;
}

/* (non-Javadoc)
 * @see org.wsi.test.log.MimeParts#count()
 */
public int count()
{
    return mimeParts.size();
}

/* (non-Javadoc)
 * @see org.wsi.test.log.MimeParts#addPart(MimePart)
 */
public void addPart(MimePart part)
{
    if (part != null)
        mimeParts.add(part);
}

/* (non-Javadoc)
 * @see org.wsi.test.log.MimeParts#getParts()
 */
public Collection getParts()
{
    return mimeParts;
}
}

/*****
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 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 * IBM - Initial API and implementation
 *****/

package org.eclipse.wst.wsi.internal.core.log.impl;

import java.io.Reader;
import java.util.ArrayList;
import java.util.List;

```

```

import java.util.Vector;

import org.eclipse.wst.wsi.internal.core.ToolEnvironment;
import org.eclipse.wst.wsi.internal.core.ToolInfo;
import org.eclipse.wst.wsi.internal.core.WSIConstants;
import org.eclipse.wst.wsi.internal.core.WSIException;
import org.eclipse.wst.wsi.internal.core.log.LogReader;
import org.eclipse.wst.wsi.internal.core.log.MessageEntry;
import org.eclipse.wst.wsi.internal.core.log.MessageEntryHandler;
import org.eclipse.wst.wsi.internal.core.log.MimePart;
import org.eclipse.wst.wsi.internal.core.log.MimeParts;
import org.eclipse.wst.wsi.internal.core.monitor.config.Comment;
import org.eclipse.wst.wsi.internal.core.monitor.config.impl.CommentImpl;
import org.eclipse.wst.wsi.internal.core.profile.validator.EntryContext;
import org.eclipse.wst.wsi.internal.core.profile.validator.MessageValidator;
import org.eclipse.wst.wsi.internal.core.report.ArtifactReference;
import org.eclipse.wst.wsi.internal.core.report.Entry;
import org.eclipse.wst.wsi.internal.core.report.impl.ArtifactReferenceImpl;
import org.eclipse.wst.wsi.internal.core.report.impl.EntryImpl;
import org.eclipse.wst.wsi.internal.core.util.EntryType;
import org.eclipse.wst.wsi.internal.core.util.Utills;
import org.eclipse.wst.wsi.internal.core.xml.XMLUtills;
import org.eclipse.wst.wsi.internal.core.xml.dom.ElementLocation;
import org.xml.sax.Attributes;
import org.xml.sax.InputSource;
import org.xml.sax.Locator;
import org.xml.sax.XMLReader;
import org.xml.sax.helpers.DefaultHandler;

/**
 * Defines the implementation used to read the Log file.
 *
 * @version 1.0.1
 * @author Neil Delima (nddelima@ca.ibm.com)
 * @author Peter Brittenham (peterbr@us.ibm.com)
 * @author Graham Turrell (gturrell@uk.ibm.com)
 */
public class LogReaderImpl implements LogReader
{
    /**
     * Document location.
     */
    private String documentURI;

    /** Used to ensure that the implementer is the first element after the log element */
    private int firstLogElement = 0;
    private int elementCount = 0;
    private boolean bMonitorFirst = false;

```

```

private WSIException wsiException = null;

/**
 * @see org.eclipse.wst.wsi.internal.core.log.LogReader#readLog(String, LogEntryHandler)
 */
public void readLog(String logURI, MessageEntryHandler logReaderCallback)
    throws WSIException
{
    // Read the log file entries
    readLog(new InputSource(logURI), logReaderCallback);
}

/**
 * @see org.eclipse.wst.wsi.internal.core.log.LogReader#readLog(Reader, LogEntryHandler)
 */
public void readLog(Reader reader, MessageEntryHandler logReaderCallback)
    throws WSIException
{
    // Read the log file entries
    readLog(new InputSource(reader), logReaderCallback);
}

/**
 * Read and parse the log file.
 * @param inputSource    an InputSource object
 * @param messageEntryHandler  a MessageEntryHandler object
 * @throws WSIException if a problem occurs while reading the log file.
 */
protected void readLog(
    InputSource inputSource,
    MessageEntryHandler messageEntryHandler)
    throws WSIException
{
    try
    {
        // Get the XML reader
        XMLReader xmlReader = XMLUtils.getXMLReader();

        /** TO DO: The LogFile must be valid wrt its schema. The schemaLocation probably
         * needs to be set in some properties file.
         * These two are to turn on validation
         reader.setFeature(FEATURE_VALIDATION,true);
         */

        // Set the content handler
        xmlReader.setContentHandler(new LogFileHandler(messageEntryHandler));
    }
}

```



```

// Start parsing the file
xmlReader.parse(inputSource);

// ADD: Need to find a way to determine when this exception should be thrown,
// since by the time we get here all of the test assertions have been processed.
// Also, only the last exception is propagated back. Should all of the exceptions
// be captured and propagated back?
if (wsiException != null)
{
    // TEMP: For now, don't throw the exception
    //throw wsiException;
}

//Requirement, the monitor MUST be the first child of the log.
//Perhaps we need to preprocess the log if this is the first condition to be met.
if (!bMonitorFirst)
    throw new WSIException(
        "The Element \""
        + WSConstants.ELEM_MONITOR
        + "\" is not the first child of the Element \"log\"");
}
catch (Exception e)
{
    throw new WSIException(
        "An error occurred while processing the message log file.",
        e);
}
}

/**
 * @see org.eclipse.wst.wsi.internal.core.document.DocumentReader#getLocation()
 */
public String getLocation()
{
    return this.documentURI;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.document.DocumentReader#setLocation(String)
 */
public void setLocation(String documentURI)
{
    this.documentURI = documentURI;
}

/**
 * Process and handles elements and attribute in the log file and invokes
 * message validation assertions serially as the file is being processed,

```

```

* if a messagevalidator exists.
*/
private class LogFileHandler extends DefaultHandler
{

    /** private members that represent a MessageEntry.*/
    private String id;
    private String conversationID;
    private String type;
    private String timestamp;
    private StringBuffer senderHostAndPort = null;
    private StringBuffer receiverHostAndPort = null;
    private StringBuffer messageContent = null;
    private StringBuffer httpHeaders = null;
    private StringBuffer boundary = null;
    private StringBuffer mimeHeaders = null;
    private StringBuffer mimeContent = null;
    private MimeParts mimeParts = null;
    private List boundaries = null;

    private int bom = 0;

    private String logTimestamp = null;
    private StringBuffer monitorComment;
    private boolean ignoreComment = false;

    /** Other private members */
    private String currentElement;

    private ElementLocation entryElementLocation = null;

    private ToolInfo toolInfo = null;

    private Vector messageEntryList = new Vector();

    private MessageEntryHandler logEntryHandler = null;

    private Locator locator = null;

    /**
     * Log file handler.
     */
    public LogFileHandler(MessageEntryHandler logEntryHandler)
    {
        this.logEntryHandler = logEntryHandler;

        toolInfo = new ToolInfo();
        toolInfo.setToolEnvironment(new ToolEnvironment());
    }

```

```

}

/**
 * Start document.
 */
public void startDocument()
{
}

/**
 * Set document locator.
 */
public void setDocumentLocator(Locator locator)
{
    this.locator = locator;

    // DEBUG:
    //System.out.println("line: " + locator.getLineNumber() + ", column: " + locator.getColumnNumber());
}

/**
 * Start element.
 */
public void startElement(
    String namespaceURI,
    String localName,
    String qName,
    Attributes attributes)
{
    // DEBUG:
    //System.out.println("localName:" + localName + ", line: " + locator.getLineNumber() + ", column: " +
locator.getColumnNumber());

    //Requirement, the implementer MUST be the first child of the log
    if (elementCount == 2)
        if (firstLogElement == 1)
            bMonitorFirst = true;

    elementCount++;

    // <log>
    if (localName == WSIConstants.ELEM_LOG)
    {
        // Save the timestamp value
        this.logTimestamp = attributes.getValue(WSIConstants.ATTR_TIMESTAMP);
    }

    // <wsi-config:configuration>

```

```

else if (
    (localName == WSIConstants.ELEM_CONFIG)
    && (namespaceURI == WSIConstants.NS_URI_WSI_MONITOR_CONFIG))
{
    // Save comment element if it exists
    ignoreComment = false;
}

// <wsi-config:comment>
else if (
    (localName == WSIConstants.ELEM_COMMENT)
    && (namespaceURI == WSIConstants.NS_URI_WSI_MONITOR_CONFIG))
{
    // If this is the comment element within the configuration element, then get its content
    if (!ignoreComment)
    {
        currentElement = WSIConstants.ELEM_COMMENT;
        monitorComment = new StringBuffer();
    }
}

// <wsi-config:redirect>
else if (
    (localName == WSIConstants.ELEM_REDIRECT)
    && (namespaceURI == WSIConstants.NS_URI_WSI_MONITOR_CONFIG))
{
    // After hitting the first redirect statement, ignore all comment elements
    ignoreComment = true;
    monitorComment = null;
}

// <monitor>
else if (localName == WSIConstants.ELEM_MONITOR)
{
    firstLogElement++;
    toolInfo.setName(WSIConstants.ELEM_MONITOR);

    // Get the monitor version and release date
    toolInfo.setVersion(attributes.getValue(WSIConstants.ATTR_VERSION));
    toolInfo.setReleaseDate(
        attributes.getValue(WSIConstants.ATTR_RELEASE_DATE));
}

// <implementer>
else if (localName == WSIConstants.ELEM_IMPLEMENTER)
{
    currentElement = WSIConstants.ELEM_IMPLEMENTER;
    toolInfo.setImplementer(attributes.getValue(WSIConstants.ATTR_NAME));
}

```

```

    toolInfo.setLocation(attributes.getValue(WSIConstants.ATTR_LOCATION));
}

// <runtime>
else if (localName == WSIConstants.ELEM_RUNTIME)
{
    currentElement = WSIConstants.ELEM_RUNTIME;
    toolInfo.getToolEnvironment().setRuntimeName(
        attributes.getValue(WSIConstants.ATTR_NAME));
    toolInfo.getToolEnvironment().setRuntimeVersion(
        attributes.getValue(WSIConstants.ATTR_VERSION));
}

// <operatingSystem>
else if (localName == WSIConstants.ELEM_OPERATING_SYSTEM)
{
    currentElement = WSIConstants.ELEM_OPERATING_SYSTEM;
    toolInfo.getToolEnvironment().setOSName(
        attributes.getValue(WSIConstants.ATTR_NAME));
    toolInfo.getToolEnvironment().setOSVersion(
        attributes.getValue(WSIConstants.ATTR_VERSION));
}

// <xmlParser>
else if (localName == WSIConstants.ELEM_XML_PARSER)
{
    currentElement = WSIConstants.ELEM_XML_PARSER;
    toolInfo.getToolEnvironment().setXMLParserName(
        attributes.getValue(WSIConstants.ATTR_NAME));
    toolInfo.getToolEnvironment().setXMLParserVersion(
        attributes.getValue(WSIConstants.ATTR_VERSION));
}

// <messageEntry>
else if (localName == WSIConstants.ELEM_MESSAGE_ENTRY)
{
    currentElement = WSIConstants.ELEM_MESSAGE_ENTRY;
    entryElementLocation = new ElementLocation(this.locator);
    timestamp = attributes.getValue(WSIConstants.ATTR_TIMESTAMP);
    conversationID = attributes.getValue(WSIConstants.ATTR_CONVERSATION_ID);
    id = attributes.getValue(WSIConstants.ATTR_ID_UC);
    type = attributes.getValue(WSIConstants.ATTR_TYPE);
}

// <httpHeaders>
else if (localName == WSIConstants.ELEM_HTTP_HEADERS)
{
    //Note: Character data could be split up and returned

```

```

//in more more than one characters call.
httpHeaders = new StringBuffer();
currentElement = WSIConstants.ELEM_HTTP_HEADERS;
}

// <messageContent>
else if (localName == WSIConstants.ELEM_MESSAGE_CONTENT)
{
    messageContent = new StringBuffer();
    mimeParts = null;
    currentElement = WSIConstants.ELEM_MESSAGE_CONTENT;
    String bomString = attributes.getValue(WSIConstants.ATTR_BOM);
    if (bomString != null)
        bom = Integer.valueOf(bomString).intValue();
    else
        bom = 0;
}

// <messageContentWithAttachments>
else if (localName == WSIConstants.ELEM_MESSAGE_CONTENT_WITH_ATTACHMENTS)
{
    messageContent = null;
    mimeParts = new MimePartsImpl();

    String bomString = attributes.getValue(WSIConstants.ATTR_BOM);
    if (bomString != null)
        bom = Integer.valueOf(bomString).intValue();
    else
        bom = 0;
}

// <mimePart>
else if (localName == WSIConstants.ELEM_MIME_PART)
{
    if (boundaries == null)
        boundaries = new ArrayList(2);
    else
        boundaries.clear();
}

// <boundaryString>
else if (localName == WSIConstants.ELEM_BOUNDARY_STRING)
{
    boundary = new StringBuffer();
    currentElement = WSIConstants.ELEM_BOUNDARY_STRING;
}

// <mimeHeaders>

```

```

else if (localName == WSIConstants.ELEM_MIME_HEADERS)
{
    mimeHeaders = new StringBuffer();
    currentElement = WSIConstants.ELEM_MIME_HEADERS;
}

// <mimeContent>
else if (localName == WSIConstants.ELEM_MIME_CONTENT)
{
    mimeContent = new StringBuffer();
    currentElement = WSIConstants.ELEM_MIME_CONTENT;
}

// <senderHostAndPort>
else if (localName == WSIConstants.ELEM_SENDER_HOST_AND_PORT)
{
    senderHostAndPort = new StringBuffer();
    currentElement = WSIConstants.ELEM_SENDER_HOST_AND_PORT;
}

// <receiverHostAndPort>
else if (localName == WSIConstants.ELEM_RECEIVER_HOST_AND_PORT)
{
    receiverHostAndPort = new StringBuffer();
    currentElement = WSIConstants.ELEM_RECEIVER_HOST_AND_PORT;
}
}

/**
 * Characters callback.
 */
public void characters(char ch[], int start, int length)
{
    // Ignoring CRLF that appears in log elements
    int altStart = start;
    int altLength = length;
    if (start > 0 && ch[start-1] == 13 && ch[start] == 10)
    {
        altStart++;
        altLength--;
    }

    // <wsi-monConfig:comment>
    if (monitorComment != null && currentElement == WSIConstants.ELEM_COMMENT)
    {
        monitorComment.append(ch, start, length);
    }
}

```

```

// <messageContent>
else if (messageContent != null
    && currentElement == WSICConstants.ELEM_MESSAGE_CONTENT)
{
    messageContent.append(ch, start, length);
}

// <httpHeaders>
else if (httpHeaders != null
    && currentElement == WSICConstants.ELEM_HTTP_HEADERS)
{
    httpHeaders.append(ch, start, length);
}

// <boundaryString>
else if (boundary != null
    && currentElement == WSICConstants.ELEM_BOUNDARY_STRING)
{
    boundary.append(ch, altStart, altLength);
}

// <mimeHeaders>
else if (mimeHeaders != null
    && currentElement == WSICConstants.ELEM_MIME_HEADERS)
{
    mimeHeaders.append(ch, altStart, altLength);
}

// <mimeContent>
else if (mimeContent != null
    && currentElement == WSICConstants.ELEM_MIME_CONTENT)
{
    mimeContent.append(ch, altStart, altLength);
}

// <senderHostAndPort>
else if (senderHostAndPort != null
    && currentElement == WSICConstants.ELEM_SENDER_HOST_AND_PORT)
{
    senderHostAndPort.append(ch, start, length);
}

// <receiverHostAndPort>
else if (receiverHostAndPort != null
    && currentElement == WSICConstants.ELEM_RECEIVER_HOST_AND_PORT)
{
    receiverHostAndPort.append(ch, start, length);
}

```



```

}

/**
 * End Element.
 */
public void endElement(String namespaceURI, String localName, String qName)
{
    // <wsi-config:comment>
    if (
        (localName == WSIConstants.ELEM_COMMENT)
        && (namespaceURI == WSIConstants.NS_URI_WSI_MONITOR_CONFIG))
    {
        // If we saved the comment, then process it and the log timestamp
        if (this.monitorComment != null)
        {
            ArtifactReference artifactReference = new ArtifactReferenceImpl();
            artifactReference.setTimestamp(this.logTimestamp);
            Comment comment = new CommentImpl();
            comment.setText(monitorComment.toString());
            artifactReference.setDocumentElement(
                comment,
                WSIConstants.NS_NAME_WSI_MONITOR_CONFIG);
            processArtifactReference(artifactReference);
        }
    }

    // <boundaryString>
    else if (localName == WSIConstants.ELEM_BOUNDARY_STRING)
    {
        // Adding boundary string to a list
        boundaries.add(boundary.toString());
    }

    // <mimePart>
    else if (localName == WSIConstants.ELEM_MIME_PART)
    {
        // Creating a MessageMIMEPart instance
        MimePart part = new MimePartImpl();
        part.setHeaders(mimeHeaders.toString());
        part.setContent(mimeContent.toString());
        part.setBoundaryStrings((String[])boundaries.toArray(new String[0]));

        mimeParts.addPart(part);
    }

    // <messageEntry>
    else if (localName == WSIConstants.ELEM_MESSAGE_ENTRY)
    {

```

```

// Assumption: Related messages are sequentially available in the message log.
if (MessageEntry.TYPE_REQUEST.equalsIgnoreCase(type))
{
    // Create log entry
    MessageEntry messageEntryRequest =
        createMessageEntry(
            id,
            conversationID,
            type,
            timestamp,
            senderHostAndPort.toString(),
            receiverHostAndPort.toString(),
            messageContent == null ? "" : messageContent.toString(),
            httpHeaders.toString(),
            mimeParts,
            entryElementLocation);

    // Add log entry to the list
    messageEntryList.add(messageEntryRequest);
    // Request is now processed only when the response is received.
}

else if (MessageEntry.TYPE_RESPONSE.equalsIgnoreCase(type))
{
    // Create log entry
    MessageEntry messageEntryResponse =
        createMessageEntry(
            id,
            conversationID,
            type,
            timestamp,
            senderHostAndPort.toString(),
            receiverHostAndPort.toString(),
            messageContent == null ? "" : messageContent.toString(),
            httpHeaders.toString(),
            mimeParts,
            entryElementLocation);

    if (logEntryHandler != null)
    {
        // look up the request message
        // ISSUE : need to throw & catch a nullpointerexception in here...
        MessageEntry messageEntryRequest = findRelatedRequest(messageEntryResponse);

        if (messageEntryRequest != null)
        {
            if (!isMessageEncrypted(messageEntryRequest.getMessage()) &&
                !isMessageEncrypted(messageEntryResponse.getMessage()))

```

```

    {
if (!omitRequest(messageEntryRequest))
    {
        // Create entry
        // ADD: Need to create entry from report
        //Entry entry = this.reporter.getReport().createEntry();
        Entry entry = new EntryImpl();
        entry.setEntryType(
            EntryType.getEntryType(MessageValidator.TYPE_MESSAGE_REQUEST));
        entry.setReferenceID(messageEntryRequest.getId());
        entry.setEntryDetail(messageEntryRequest);

        // Create the context for the request-response pair
        EntryContext requestTargetContext =
            new EntryContext(
                entry,
                messageEntryRequest,
                messageEntryResponse);
        if (requestTargetContext != null)
            processLogEntry(requestTargetContext);

        // Create entry
        // ADD: Need to create entry from report
        //Entry entry = this.reporter.getReport().createEntry();
        entry = new EntryImpl();
        entry.setEntryType(
            EntryType.getEntryType(MessageValidator.TYPE_MESSAGE_RESPONSE));
        entry.setReferenceID(messageEntryResponse.getId());
        entry.setEntryDetail(messageEntryResponse);

        EntryContext responseTargetContext =
            new EntryContext(
                entry,
                messageEntryRequest,
                messageEntryResponse);
        if (responseTargetContext != null)
            processLogEntry(responseTargetContext);
    }
    }
    }
    }
    }
}

currentElement = null;
}

/**

```

```

* End Document.
*/
public void endDocument()
{
//If we want to serially process the log file. Invoke validateMessages with
//msgValidator!=null. Here we have the option of clearing the logEntry vector
//once message validation is done.
//if (msgValidator!=null)
//logEntryList.clear();

/* Process all remaining requests in the messageEntryList */
for (int i = 0; i < messageEntryList.size(); i++) {
    MessageEntry logEntry = (MessageEntry) messageEntryList.get(i);
    if (!omitRequest(logEntry))
    {
        Entry entry = new EntryImpl();
        entry.setEntryType(EntryType.getEntryType(
            MessageValidator.TYPE_MESSAGE_REQUEST));
        entry.setReferenceID(logEntry.getId());
        entry.setEntryDetail(logEntry);
        EntryContext requestTargetContext =
            new EntryContext(entry, logEntry, null);
        if (requestTargetContext != null)
            processLogEntry(requestTargetContext);
    }
}
}

/**
 * Process the message in the log entry.
 */
public void processLogEntry(EntryContext entryContext)
{
    try
    {
        //Before validating any messages check if implementer is the first element.
        logEntryHandler.processLogEntry(entryContext);
    }
    catch (Exception e)
    {
        wsiException =
            new WSIException(
                "An error occurred while validating"
                + " the message logEntry: "
                + entryContext.getMessageEntry().getId(),
                e);
    }
}
}

```

```

/**
 * Process the artifact reference.
 */
private void processArtifactReference(ArtifactReference artifactReference)
{
    try
    {
        //Before validating any messages check if implementer is the first element.
        logEntryHandler.processArtifactReference(artifactReference);
    }

    catch (Exception e)
    {
        wsiException =
        new WSIException(
            "An error occurred while processing"
            + " the artifact reference: "
            + artifactReference.toString(),
            e);
    }
}

/**
 * Find the related Request LogEntry. The current rule for related log entries is
 * that a request will always precede its response.
 * ISSUE: Sequence in log file is timestamp driven (monitor spec).
 * Assertion is that for a given conversationID, a second request is not sent
 * until its response is received (chronologically).
 * This method will have to be modified if the rule changes.
 */
// could be made more efficient by keeping a much smaller list of unresponded requests...
public MessageEntry findRelatedRequest(MessageEntry logEntryResponse)
{
    if (logEntryResponse != null)
    {
        for (int entry = messageEntryList.size() - 1; entry >= 0; entry--)
        {
            // Get the log entry of the matching request
            MessageEntry logEntry = (MessageEntry) messageEntryList.get(entry);
            // Ignore own entry
            if (!logEntryResponse.equals(logEntry))
            {
                if (logEntryResponse
                    .getConversationId()
                    .equals(logEntry.getConversationId()))
                {
                    // found the most recently read message with the same conversationID.
                }
            }
        }
    }
}

```

```

// From above, this should be the corresponding request. Check as far as possible.
if (logEntry.getType().equals(MessageEntry.TYPE_REQUEST))
{
    messageEntryList.remove(entry);
    return logEntry;
}
else
{
    return null; // expected a request. need to throw an exception!
}
}
}
}
return null;
// conversationID match not found anywhere. need to throw an exception!
}

```

```
/**
```

```
* Create log entry.
```

```
*/
```

```
private MessageEntry createMessageEntry(
```

```
String id,
```

```
String conversationId,
```

```
String type,
```

```
String timestamp,
```

```
String senderIPPort,
```

```
String receiverIPPort,
```

```
String messageContent,
```

```
String httpHeaders,
```

```
MimeParts mimeParts,
```

```
ElementLocation elementLocation)
```

```
{
```

```
// Create log entry
```

```
MessageEntry messageEntry = new MessageEntryImpl();
```

```
messageEntry.setId(id);
```

```
messageEntry.setConversationId(conversationID);
```

```
messageEntry.setType(type);
```

```
messageEntry.setTimestamp(timestamp);
```

```
messageEntry.setSenderHostAndPort(senderIPPort);
```

```
messageEntry.setReceiverHostAndPort(receiverIPPort);
```

```
messageEntry.setHTTPHeaders(httpHeaders);
```

```
messageEntry.setBOM(bom);
```

```
messageEntry.setElementLocation(elementLocation);
```

```
String encoding = null;
```

```
if (mimeParts == null)
```

```
{
```

```

        // Get the encoding for this message content
        encoding = Utils.getXMLEncoding(messageContent);
        messageEntry.setMessage(messageContent);
        messageEntry.setMimeContent(false);
    }
    else
    {
        messageEntry.setMimeParts(mimeParts);
        MimePart root = Utils.findRootPart(httpHeaders, mimeParts.getParts());
        if (root != null)
        {
            // Get the encoding for this message content
            encoding = Utils.getXMLEncoding(root.getContent());
            mimeParts.setRootPart(root);
        }
    }
    // else empty body
    messageEntry.setMimeContent(true);
}
if ((encoding == null) || (encoding.equals(""))
    encoding = WSIConstants.DEFAULT_XML_ENCODING;
messageEntry.setEncoding(encoding);

return messageEntry;
}

} //End ContentHandler

/**
 * Check for HTTP messages that should not be logged.
 * @param rr: a request-response pair.
 * @return true if the request-response pair should be omitted from the log.
 */
private boolean omitRequest(MessageEntry messageEntryRequest)
{
    boolean omit = false;
    if (messageEntryRequest == null)
        omit = true;
    else
    {
        String requestHeaders = messageEntryRequest.getHTTPHeaders();
        if ((requestHeaders != null) &&
            ((requestHeaders.startsWith("CONNECT")) ||
             (requestHeaders.startsWith("TRACE")) ||
             (requestHeaders.startsWith("DELETE")) ||
             (requestHeaders.startsWith("OPTIONS")) ||
             (requestHeaders.startsWith("HEAD")) ||
             ((requestHeaders.startsWith("GET")) &&
              (!isMessageWithBrackets(messageEntryRequest.getMessage())))))

```

```

    {
        omit = true;
    }
}
return omit;
}

/**
 * Returns true if the content of the message has at least
 * one left and one right bracket.
 * @param message: a message content.
 * @return true if the content of the message has at least
 * one left and one right bracket.
 */
public boolean isMessageWithBrackets(String message)
{
    return ((message != null) &&
        (message.indexOf("<") != -1) &&
        (message.indexOf(">") != -1));
}

private boolean isMessageEncrypted(String message)
{
    return ((message != null) &&
        (message.indexOf("<EncryptedKey ") != -1));
}
}

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 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 * IBM - Initial API and implementation
 *****/
package org.eclipse.wst.wsi.internal.core.log.impl;

import java.io.PrintWriter;
import java.io.StringWriter;

import org.eclipse.wst.wsi.internal.core.WSConstants;
import org.eclipse.wst.wsi.internal.core.log.MimePart;
import org.eclipse.wst.wsi.internal.core.xml.XMLUtils;

/**
 * @author lauzond

```



```

*
* TODO To change the template for this generated type comment go to
* Window - Preferences - Java - Code Style - Code Templates
*/
public class MimePartImpl implements MimePart
{
    private String mimeContent;
    private String mimeHeaders;
    private String[] boundaryStrings = new String[0];

    public MimePartImpl ()
    {
    }

    /* (non-Javadoc)
    * @see org.wsi.test.log.MimePart#getContent()
    */
    public String getContent()
    {
        return this.mimeContent;
    }

    /* (non-Javadoc)
    * @see org.wsi.test.log.MimePart#setContent(String)
    */
    public void setContent(String mimeContent)
    {
        this.mimeContent = mimeContent;
    }

    /**
    /* (non-Javadoc)
    * @see org.eclipse.wst.wsi.internal.core.log.MimePart#getHeaders()
    */
    public String getHeaders()
    {
        return this.mimeHeaders;
    }

    /* (non-Javadoc)
    * @see org.wsi.test.log.MimePart#setHeaders(String)
    */
    public void setHeaders(String mimeHeaders)
    {
        this.mimeHeaders = mimeHeaders;
    }

    /* (non-Javadoc)

```

```

* @see org.wsi.test.log.MimePart#getBoundaryStrings()
*/
public String[] getBoundaryStrings()
{
    return this.boundaryStrings;
}

/* (non-Javadoc)
* @see org.wsi.test.log.MimePart#setBoundaryStrings(String[])
*/
public void setBoundaryStrings(String[] boundaryStrings)
{
    this.boundaryStrings = boundaryStrings;
}

/**
* Get string representation of this object.
*/
public String toString()
{
    return toXMLString(WSIConstants.NS_NAME_WSI_LOG);
}

/* (non-Javadoc)
* @see org.wsi.test.document.DocumentElement#toXMLString(String)
*/
public String toXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if (!(nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // Add mimePart element
    pw.println("<" + nsName + WSIConstants.ELEM_MIME_PART + ">");

    // Add boundary string element
    for (int i = 0; i < boundaryStrings.length; i++)
    {
        pw.print("<" + nsName + WSIConstants.ELEM_BOUNDARY_STRING + ">");
        pw.print(boundaryStrings[i]);
        pw.println("</" + nsName + WSIConstants.ELEM_BOUNDARY_STRING + ">");
    }

    // Add mimeHeaders element
    pw.print("<" + nsName + WSIConstants.ELEM_MIME_HEADERS + ">");
}

```

```

pw.print(XMLUtils.xmlEscapedString(mimeHeaders));
pw.println("<" + nsName + WSConstants.ELEM_MIME_HEADERS + ">");

// Add encoded content
pw.print("<" + nsName + WSConstants.ELEM_MIME_CONTENT + ">");
if ((mimeContent.indexOf("<") != -1) ||
    (mimeContent.indexOf(">") != -1) ||
    (mimeContent.indexOf(""") != -1) ||
    (mimeContent.indexOf("&") != -1))
    pw.print(XMLUtils.xmlEscapedString(mimeContent));
else
    pw.print(getContent());
pw.println("</" + nsName + WSConstants.ELEM_MIME_CONTENT + ">");

// Add end message element
pw.println("</" + nsName + WSConstants.ELEM_MIME_PART + ">");

// Return string
return sw.toString();
}

}

/*****
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* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* IBM - Initial API and implementation
* BeaconIT - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.document.impl;

import java.io.BufferedReader;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.OutputStreamWriter;
import java.io.PrintWriter;
import java.io.Reader;
import java.io.UnsupportedEncodingException;
import java.io.Writer;

import org.eclipse.wst.wsi.internal.core.WSIException;
import org.eclipse.wst.wsi.internal.core.document.DocumentWriter;
import org.w3c.dom.Document;

```

```

/**
 * Defines the implementation used to write the Conformance XML
 * documents.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public abstract class DocumentWriterImpl implements DocumentWriter
{
/**
 * Document writer.
 */
protected Writer writer = null;

/** (non-Javadoc)
 * @see org.wsi.test.document.DocumentWriter#getDocument()
 */
public Document getDocument() throws UnsupportedOperationException
{
// ADD:
return null;
}

/** (non-Javadoc)
 * @see org.wsi.test.document.DocumentWriter#setWriter(String)
 */
public void setWriter(String documentLocation)
throws UnsupportedEncodingException, FileNotFoundException
{
// I18N: 2003.02.26 modified by K.Nakagome@BeaconIT
this.writer =
new PrintWriter(
new OutputStreamWriter(
new FileOutputStream(documentLocation),
"UTF-8"));
}

/** (non-Javadoc)
 * @see org.wsi.test.document.DocumentWriter#write(Reader)
 */
public synchronized void write(Reader reader)
throws WSIException, IllegalStateException
{
// If the writer was not specified, then throw an exception
if (writer == null)
throw new IllegalStateException("Could not write document since writer was not set.");
}

```

```

    write(reader, writer);
}

/* (non-Javadoc)
 * @see org.wsi.test.document.DocumentWriter#write(Reader, Writer)
 */
public synchronized void write(Reader reader, Writer writer)
    throws WSIException
{
    // Create buffered reader
    BufferedReader bufReader = new BufferedReader(reader);

    // Create print writer
    PrintWriter printWriter = new PrintWriter(writer);

    String nextLine = null;

    try
    {
        // Read each line from the reader
        while ((nextLine = bufReader.readLine()) != null)
        {
            // Write text and flush stream
            printWriter.println(nextLine);
        }
    }

    catch (Exception e)
    {
        throw new WSIException("Could not write document.", e);
    }

    // Flush and close the writer
    printWriter.flush();
    //printWriter.close();
}

/**
 * Close writer.
 */
public void close() throws WSIException, IllegalStateException
{
    // If the writer was not specified, then throw an exception
    if (writer == null)
        throw new IllegalStateException("Could not write log file since writer was not set.");

    try
    {

```

```

// Close the writer
writer.close();
}

catch (IOException ioe)
{
    throw new WSIException(ioe.toString(), ioe);
}
}

}

/*****
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* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* IBM - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.document.impl;

import org.eclipse.wst.wsi.internal.core.analyzer.config.AnalyzerConfig;
import org.eclipse.wst.wsi.internal.core.analyzer.config.AnalyzerConfigReader;
import org.eclipse.wst.wsi.internal.core.analyzer.config.impl.AnalyzerConfigImpl;
import org.eclipse.wst.wsi.internal.core.analyzer.config.impl.AnalyzerConfigReaderImpl;
import org.eclipse.wst.wsi.internal.core.document.DocumentFactory;
import org.eclipse.wst.wsi.internal.core.log.Log;
import org.eclipse.wst.wsi.internal.core.log.LogReader;
import org.eclipse.wst.wsi.internal.core.log.LogWriter;
import org.eclipse.wst.wsi.internal.core.log.impl.LogImpl;
import org.eclipse.wst.wsi.internal.core.log.impl.LogReaderImpl;
import org.eclipse.wst.wsi.internal.core.log.impl.LogWriterImpl;
import org.eclipse.wst.wsi.internal.core.monitor.config.MonitorConfig;
import org.eclipse.wst.wsi.internal.core.monitor.config.MonitorConfigReader;
import org.eclipse.wst.wsi.internal.core.monitor.config.impl.MonitorConfigImpl;
import org.eclipse.wst.wsi.internal.core.monitor.config.impl.MonitorConfigReaderImpl;
import org.eclipse.wst.wsi.internal.core.profile.ProfileAssertions;
import org.eclipse.wst.wsi.internal.core.profile.ProfileAssertionsReader;
import org.eclipse.wst.wsi.internal.core.profile.impl.ProfileAssertionsImpl;
import org.eclipse.wst.wsi.internal.core.profile.impl.ProfileAssertionsReaderImpl;
import org.eclipse.wst.wsi.internal.core.report.Report;
import org.eclipse.wst.wsi.internal.core.report.ReportWriter;
import org.eclipse.wst.wsi.internal.core.report.Reporter;
import org.eclipse.wst.wsi.internal.core.report.impl.DefaultReporter;
import org.eclipse.wst.wsi.internal.core.report.impl.ReportImpl;
import org.eclipse.wst.wsi.internal.core.report.impl.ReportWriterImpl;

```

```

/**
 * This is the implementation of the Conformance document factory which provides access to
 * implementations of the documents, readers and writers.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class DocumentFactoryImpl extends DocumentFactory
{
/**
 * Document factory implementation.
 */
public DocumentFactoryImpl()
{
}

/**
 * Create log file.
 */
public Log newLog()
{
return new LogImpl();
}

/**
 * Create monitor config.
 */
public MonitorConfig newMonitorConfig()
{
return new MonitorConfigImpl();
}

/**
 * Create analyzer config.
 */
public AnalyzerConfig newAnalyzerConfig()
{
return new AnalyzerConfigImpl();
}

/**
 * Create profile assertions.
 */
public ProfileAssertions newProfileAssertions()
{
return new ProfileAssertionsImpl();
}
}

```

```

/**
 * Create report.
 */
public Report newReport()
{
    return new ReportImpl();
}

/**
 * Create monitor config reader.
 */
public MonitorConfigReader newMonitorConfigReader()
{
    return new MonitorConfigReaderImpl();
}

/**
 * Create analyzer config reader.
 */
public AnalyzerConfigReader newAnalyzerConfigReader()
{
    return new AnalyzerConfigReaderImpl();
}

/**
 * Create profile assertions reader.
 */
public ProfileAssertionsReader newProfileAssertionsReader()
{
    // Return implementation
    return new ProfileAssertionsReaderImpl();
}

/**
 * Create log reader.
 */
public LogReader newLogReader()
{
    // Return implementation
    return new LogReaderImpl();
}

// WRITERS

/**
 * Create log writer.
 */

```



```

public LogWriter newLogWriter()
{
    return new LogWriterImpl();
}

/**
 * Create a new instance of a DocumentReader.
 */
public ReportWriter newReportWriter()
{
    // Return implementation
    return new ReportWriterImpl();
}

/**
 * Create a new instance of a DefaultReporter
 */
public Reporter newReporter(Report report, ReportWriter reportWriter)
{
    return new DefaultReporter(report, reportWriter);
}

/**
 * Find the factory class name which can be specified as a Java property.
 */
//private static String getFactoryClassName()
//{
// // Get property value
// return WSIProperties.getProperty(
//     WSIProperties.PROP_DOCUMENT_FACTORY,
//     WSIProperties.DEF_DOCUMENT_FACTORY);
//}
}
/*****
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 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
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 * IBM - Initial API and implementation
 *****/
package org.eclipse.wst.wsi.internal.core.xml.jaxp;

import java.util.Hashtable;

import javax.xml.parsers.DocumentBuilder;

```

```

import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.ParserConfigurationException;

/**
 * This class defines a factory API that enables us to obtain a parser that
 * produces DOM object trees from XML documents. Note this class specializes
 * javax.xml.parsers.DocumentBuilderFactory.
 *
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class DocumentBuilderFactoryImpl extends DocumentBuilderFactory
{

    protected Hashtable attributes = new Hashtable();

    /**
     * Creates a new instance of a DocumentBuilder using the currently
     * configured parameters.
     *
     * @return a new instance of a DocumentBuilder.
     * @throws ParserConfigurationException if a DocumentBuilder cannot
     *         be created which satisfies the configuration requested.
     */
    public DocumentBuilder newDocumentBuilder()
        throws ParserConfigurationException
    {
        DocumentBuilder documentBuilder = null;

        try
        {
            documentBuilder = new DocumentBuilderImpl(this, attributes);
        }

        catch (Exception e)
        {
            throw new ParserConfigurationException(e.getMessage());
        }

        return documentBuilder;
    }

    /**
     * Allows the user to retrieve specific attributes on the underlying
     * implementation.
     *
     * @param name the name of the attribute.
     * @return the value of the attribute.
     * @throws IllegalArgumentException if the underlying implementation

```

```

*      doesn't recognize the attribute.
*/
public Object getAttribute(String name) throws IllegalArgumentException
{
    return attributes.get(name);
}

/**
 * Allows the user to set specific attributes on the underlying
 * implementation.
 *
 * @param name  the name of the attribute.
 * @param value the value of the attribute.
 * @throws IllegalArgumentException if the underlying implementation
 *      doesn't recognize the attribute.
 */
public void setAttribute(String name, Object value)
    throws IllegalArgumentException
{
    attributes.put(name, value);
}

public void setFeature(String arg0, boolean arg1)
    throws ParserConfigurationException
{
    // currently we do not support setting any feature
    // as per spec, we should throw an exception
    throw new ParserConfigurationException(arg0 + " Not supported");
}

public boolean getFeature(String arg0)
    throws ParserConfigurationException
{
    // as per spec, we should throw an exception
    throw new ParserConfigurationException(arg0 + " is not supported");
}
}

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 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM - Initial API and implementation
 *****/
package org.eclipse.wst.wsi.internal.core.xml.jaxp;

```

```

import java.io.IOException;
import java.util.Enumeration;
import java.util.Hashtable;

import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;

import org.apache.xerces.dom.DOMImplementationImpl;
import org.apache.xerces.dom.DocumentImpl;
import org.apache.xerces.impl.Constants;
import org.eclipse.wst.wsi.internal.core.xml.XMLUtils;
import org.eclipse.wst.wsi.internal.core.xml.dom.DOMParser;
import org.w3c.dom.DOMImplementation;
import org.w3c.dom.Document;
import org.xml.sax.EntityResolver;
import org.xml.sax.ErrorHandler;
import org.xml.sax.InputSource;
import org.xml.sax.SAXException;
import org.xml.sax.helpers.DefaultHandler;

/**
 * Using this class, we can obtain a Document from XML. This class is a
 * specialization of javax.xml.parsers.DocumentBuilder.
 *
 * An instance of this class can be obtained from the
 * DocumentBuilderFactory.newDocumentBuilder method. Once an instance
 * of this class is obtained, XML can be parsed from a variety of input
 * sources. These input sources are InputStreams, Files, URLs, and SAX
 * InputSources.

This class will javax.xml.parsers.DocumentBuilderFactory...
 *
 * @author Peter Brittenham (peterbr@us.ibm.com)
 * @version 1.0.1
 */
public class DocumentBuilderImpl extends DocumentBuilder
{
    protected DOMParser domParser = null;

    protected EntityResolver entityResolver = null;
    protected ErrorHandler errorHandler = new DefaultHandler();

    protected static final String NAMESPACES_FEATURE =
        Constants.SAX_FEATURE_PREFIX + Constants.NAMESPACES_FEATURE;
    protected static final String VALIDATION_FEATURE =
        Constants.SAX_FEATURE_PREFIX + Constants.VALIDATION_FEATURE;

```

```

/**
 * Constructor for DocumentBuilderImpl2.
 *
 * @param dbFactory a DocumentBuilderFactory object.
 * @throws SAXException if any parse errors occur.
 */
public DocumentBuilderImpl(DocumentBuilderFactory dbFactory, Hashtable attributes)
    throws SAXException
{
    // Create parser
    domParser = new DOMParser();

    // Set namespace aware
    domParser.setFeature(NAMESPACES_FEATURE, dbFactory.isNamespaceAware());

    // Set validating
    domParser.setFeature(VALIDATION_FEATURE, dbFactory.isValidating());
    if (dbFactory.isValidating()) domParser.setFeature(XMLUtils.FEATURE_VALIDATION_SCHEMA, true);

    // Do not defer node expansion
    domParser.setFeature(
        Constants.XERCES_FEATURE_PREFIX + Constants.DEFER_NODE_EXPANSION_FEATURE,
        false);

    // Set other features from the document factory builder
    domParser.setFeature(
        Constants.XERCES_FEATURE_PREFIX + Constants.INCLUDE_IGNOREABLE_WHITESPACE,
        !dbFactory.isIgnoringElementContentWhitespace());
    domParser.setFeature(
        Constants.XERCES_FEATURE_PREFIX
        + Constants.CREATE_ENTITY_REF_NODES_FEATURE,
        !dbFactory.isExpandEntityReferences());
    domParser.setFeature(
        Constants.XERCES_FEATURE_PREFIX + Constants.INCLUDE_COMMENTS_FEATURE,
        !dbFactory.isIgnoringComments());
    domParser.setFeature(
        Constants.XERCES_FEATURE_PREFIX + Constants.CREATE_CDATA_NODES_FEATURE,
        !dbFactory.isCoalescing());

    // set features and properties specified at factory level
    if (attributes != null)
    {
        for (Enumeration i=attributes.keys(); i.hasMoreElements();)
        {
            String attribute = (String)i.nextElement();
            if (attribute.equals(XMLUtils.JAXP_SCHEMA_SOURCE))
            {

```

```

// for multiple schema validation may be array of InputSource
if(attributes.get(attribute) instanceof InputSource[])
    domParser.setProperty(attribute, (InputSource[])attributes.get(attribute));
else
    domParser.setProperty(attribute, (InputSource)attributes.get(attribute));
}
else
{
    domParser.setProperty(attribute, attributes.get(attribute));
}
}
}
}

/**
 * Parse the content of the given input source as an XML document and return a new DOM.
 * @param is InputStream containing the content to be parsed.
 * @throws SAXException if any parse errors occur.
 * @throws IOException if any IO errors occur.
 */
public Document parse(InputSource is) throws SAXException, IOException
{
    ClassLoader currentLoader = Thread.currentThread().getContextClassLoader();
    try
    {
        Thread.currentThread().setContextClassLoader(XMLUtils.class.getClassLoader());

        // Set entity resolver
        if (this.entityResolver != null)
            domParser.setEntityResolver(this.entityResolver);

        // Set error handler
        if (this.errorHandler != null)
            domParser.setErrorHandler(this.errorHandler);

        // Parse input source
        domParser.parse(is);

        // Return the document that was created
        return domParser.getDocument();
    }
    finally
    {
        Thread.currentThread().setContextClassLoader(currentLoader);
    }
}

/**

```

```

* Indicates whether or not this parser is configured to understand namespaces.
* @return true if this parser is configured to understand namespaces; false otherwise.
*/
public boolean isNamespaceAware()
{
    boolean namespaceAware = false;

    try
    {
        namespaceAware = domParser.getFeature(NAMESPACES_FEATURE);
    }

    catch (SAXException se)
    {
        throw new RuntimeException(se.toString());
    }

    return namespaceAware;
}

/**
* Indicates whether or not this parser is configured to validate XML documents.
* @return true if this parser is configured to validate XML documents; false otherwise.
*/
public boolean isValidating()
{
    boolean validating = false;

    try
    {
        validating = domParser.getFeature(VALIDATION_FEATURE);
    }

    catch (SAXException se)
    {
        throw new RuntimeException(se.toString());
    }

    return validating;
}

/**
* Specify the EntityResolver to be used to resolve entities present
* in the XML document to be parsed. Setting this to null will result
* in the underlying implementation using it's own default
* implementation and behavior.
*
* @param er the EntityResolver to be used to resolve entities

```

```

*      present in the XML document to be parsed.
*/
public void setEntityResolver(EntityResolver entityResolver)
{
    this.entityResolver = entityResolver;
}

/**
 * Specify the ErrorHandler to be used to report errors present in
 * the XML document to be parsed. Setting this to null will result
 * in the underlying implementation using it's own default
 * implementation and behavior.
 *
 * param eh the ErrorHandler to be used to report errors present in
 * the XML document to be parsed.
 */
public void setErrorHandler(ErrorHandler errorHandler)
{
    this.errorHandler = errorHandler;
}

/**
 * Obtain a new instance of a DOM Document object to build a DOM
 * tree with. An alternative way to create a DOM Document object
 * is to use the getDOMImplementation method to get a DOM Level 2
 * DOMImplementation object and then use DOM Level 2 methods on
 * that object to create a DOM Document object.
 *
 * @return a new instance of a DOM Document object.
 */
public Document newDocument()
{
    return new DocumentImpl();
}

/**
 * Obtain an instance of a DOMImplementation object.
 * @return a new instance of a DOMImplementation.
 */
public DOMImplementation getDOMImplementation()
{
    return new DOMImplementationImpl();
}
}
/*****
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 * All rights reserved. This program and the accompanying materials

```



```

* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* IBM - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.wsdl.xsd;

import java.util.Hashtable;
import java.util.Map;

/**
 * The default implementation of the XML Catalog.
 *
 * @author Lawrence Mandel (lmandel@ca.ibm.com)
 */
public class XMLCatalogImpl extends XMLCatalog
{
    protected Map catalog = new Hashtable();

    /** (non-Javadoc)
     * @see org.eclipse.wsdl.validate.xmlconformance.XMLCatalog#addEntryToCatalog(java.lang.String,
     java.lang.String)
     */
    public void addEntryToCatalog(String publicId, String systemId)
    {
        catalog.put(publicId, systemId);
    }

    /** (non-Javadoc)
     * @see org.eclipse.wsdl.validate.xmlconformance.XMLCatalog#resolveEntityLocation(java.lang.String,
     java.lang.String)
     */
    public String resolveEntityLocation(String publicId, String systemId)
    {
        // if there's no system id use the public id
        if (systemId == null || systemId.equals(""))
        {
            systemId = publicId;
        }
        return (String)catalog.get(systemId);
    }
}
*****
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```

* which accompanies this distribution, and is available at

* <http://www.eclipse.org/legal/epl-v10.html>

*

* Contributors:

* IBM - Initial API and implementation

*****/

package org.eclipse.wst.wsi.internal.core.wsdl;

import java.io.IOException;

import java.io.InputStream;

import java.net.URL;

import java.util.Iterator;

import java.util.Map;

import javax.wsdl.Binding;

import javax.wsdl.BindingFault;

import javax.wsdl.BindingInput;

import javax.wsdl.BindingOperation;

import javax.wsdl.BindingOutput;

import javax.wsdl.Definition;

import javax.wsdl.Fault;

import javax.wsdl.Import;

import javax.wsdl.Input;

import javax.wsdl.Message;

import javax.wsdl.Operation;

import javax.wsdl.Output;

import javax.wsdl.Part;

import javax.wsdl.Port;

import javax.wsdl.PortType;

import javax.wsdl.Service;

import javax.wsdl.Types;

import javax.wsdl.WSDLException;

import javax.wsdl.extensions.ExtensibilityElement;

import javax.wsdl.factory.WSDLFactory;

import javax.xml.namespace.QName;

import javax.xml.parsers.DocumentBuilder;

import javax.xml.parsers.DocumentBuilderFactory;

import org.apache.xerces.dom.ElementImpl;

import org.eclipse.wst.wsi.internal.core.xml.dom.ElementLocation;

import org.w3c.dom.Document;

import org.w3c.dom.Element;

import org.xml.sax.InputSource;

import com.ibm.wsdl.Constants;

import com.ibm.wsdl.extensions.schema.SchemaConstants;

import com.ibm.wsdl.util.StringUtils;

import com.ibm.wsdl.util.xml.DOMUtils;

```

import com.ibm.wsdl.util.xml.QNameUtils;
import com.ibm.wsdl.util.xml.XPathUtils;

/**
 * This class is a specialization of com.ibm.wsdl.xml.WSDLReaderImpl in WSDL4J.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class WSDLReaderImpl extends com.ibm.wsdl.xml.WSDLReaderImpl
{
    // WSDL element list.
    protected WSDLElementList wsdlElementList = new WSDLElementList();

    /* (non-Javadoc)
     * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseDefinitions(java.lang.String, org.w3c.dom.Element,
     java.util.Map)
     */
    protected Definition parseDefinitions(
        String documentBaseURI,
        Element defEl,
        Map importedDefs)
        throws WSDLException
    {
        Definition def = null;
        ClassLoader currentLoader = Thread.currentThread().getContextClassLoader();
        try
        {
            Thread.currentThread().setContextClassLoader(WSDLReaderImpl.class.getClassLoader());

            def =
                super.parseDefinitions(documentBaseURI, defEl, importedDefs);

            // Try to add element to list
            addElementToList(defEl, def);
        }
        catch (Exception e)
        {
        }
        finally
        {
            Thread.currentThread().setContextClassLoader(currentLoader);
        }
        return def;
    }
}

```

```

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseImport(org.w3c.dom.Element, javax.wsdl.Definition,
 java.util.Map)
 */
protected Import parseImport(Element element, Definition definition, Map map)
    throws WSDLException
{
    /*boolean wasEx = false;
    if (def.getDocumentBaseURI()!=null){
        File f = new File(def.getDocumentBaseURI());
        if (f.getParent()!=null && importEl.getAttribute("location")!=null){
            f = new File(f.getParent()+"/"+importEl.getAttribute("location"));

        }
        } else wasEx = false;

    Import importDef = super.parseImport(importEl, def, importedDefs);

    // Try to add element to list
    addElementToList(importEl, importDef);

    return importDef;*/

    /*Import import1 = definition.createImport();
    String s = DOMUtils.getAttribute(element, "namespace");
    String s1 = DOMUtils.getAttribute(element, "location");
    if (s != null)
        import1.setNamespaceURI(s);
    if (s1 != null) {
        if (importDocuments) {
            String s2 = definition.getDocumentBaseURI();
            try {

                URL url1 = s2 == null ? null : StringUtils.getURL(null, s2);
                URL url = StringUtils.getURL(url1, s1);
                InputStream inputstream =
                    StringUtils.getContentAsStream(url);
                inputstream.close();
            } catch (IOException ex) {
                //import1.setLocationURI(null);
                addElementToList(element, import1);
                return import1;
            } catch (Throwable ex) {
                throw new WSDLException(
                    "OTHER_ERROR",
                    "Unable to resolve imported document at '" + s1 + "'",
                    ex);
            }
        }
    }
}

```

```

    }
}
Import importDef = super.parseImport(element, definition, map);
addElementToList(element, importDef);*/
Import import1 = definition.createImport();
String s = DOMUtils.getAttribute(element, "namespace");
String s1 = DOMUtils.getAttribute(element, "location");
if (s != null)
    import1.setNamespaceURI(s);
// ADD: check "location" attribute for empty
// string to prevent self-defenition assigning
if ((s1 != null) && (s1.length() > 0))
{
    import1.setLocationURI(s1);
    if (importDocuments)
        try
        {
            String s2 = definition.getDocumentBaseURI();
            Definition definition1 = null;
            InputStream inputstream = null;
            InputSource inputsource = null;
            URL url = null;
            if (loc != null)
            {
                inputsource = loc.getImportInputSource(s2, s1);
                String s3 = loc.getLatestImportURI();
                definition1 = (Definition) map.get(s3);
            }
            else
            {
                URL url1 = s2 == null ? null : StringUtils.getURL(null, s2);
                url = StringUtils.getURL(url1, s1);
                definition1 = (Definition) map.get(url.toString());
                if (definition1 == null)
                {
                    try
                    {

                        inputstream = url.openStream();
                    }
                    catch (IOException ex)
                    {
                        //import1.setLocationURI(null);
                        addElementToList(element, import1);
                        return import1;
                    }
                }
                if (inputstream != null)

```

```

        inputsource = new InputSource(inputstream);
    }
}
if (definition1 == null)
{
    if (inputsource == null)
        throw new WSDLException(
            "OTHER_ERROR",
            "Unable to locate imported document at "
            + s1
            + ""
            + (s2 != null ? ", relative to " + s2 + ".": "."));
    Document document = null;
    try
    {
        document = getDocument(inputsource, s1);
    }
    catch (WSDLException ex)
    {
        addElementToList(element, import1);
        return import1;
    }
    if (inputstream != null)
        inputstream.close();
    Element element2 = document.getDocumentElement();
    if (QNameUtils.matches(Constants.Q_ELEM_DEFINITIONS, element2))
    {
        //if (verbose)
        // System.out.println(
        // "Retrieving document at "
        // + s1
        // + ""
        // + (s2 != null ? ", relative to " + s2 + ".": "."));
        String s4 =
            loc == null
            ? url == null
            ? s1
            : url.toString() : loc.getLatestImportURI();
        definition1 = readWSDL(s4, element2, map);
    }
    else
    {
        QName qname = QNameUtils.newQName(element2);
        if (SchemaConstants.XSD_QNAME_LIST.contains(qname))
        {
            WSDLFactory wsdlfactory =
                factoryImplName == null
                ? WSDLFactory.newInstance()

```

```

        : WSDLFactory.newInstance(factoryImplName);
definition1 = wsdlfactory.newDefinition();
if (extReg != null)
    definition1.setExtensionRegistry(extReg);
String s5 =
    loc == null
        ? url == null
            ? s1
                : url.toString() : loc.getLatestImportURI();
definition1.setDocumentBaseURI(s5);
/* Don't add types element since it doesn't exist. Adding it causes problems
 * since it will add a types element for processing that does not exist.
Types types = definition1.createTypes();
UnknownExtensibilityElement unknownextensibilityelement =
    new UnknownExtensibilityElement();
unknownextensibilityelement.setElement(element2);
types.addExtensibilityElement(
    unknownextensibilityelement);
definition1.setTypes(types);
*/
    }
}
}
if (definition1 != null)
    import1.setDefinition(definition1);
}
catch (WSDLException wsdlexception)
{
    wsdlexception.setLocation(XPathUtils.getXPathExprFromNode(element));
    throw wsdlexception;
}
catch (Throwable throwable)
{
    throw new WSDLException(
        "OTHER_ERROR",
        "Unable to resolve imported document at '" + s1 + "'",
        throwable);
}
}
for (Element element1 = DOMUtils.getFirstChildElement(element);
    element1 != null;
    element1 = DOMUtils.getNextSiblingElement(element1))
if (QNameUtils.matches(Constants.Q_ELEM_DOCUMENTATION, element1))
    import1.setDocumentationElement(element1);
else
    DOMUtils.throwWSDLException(element1);

return import1;

```

```

}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseTypes(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected Types parseTypes(Element typesEl, Definition def)
    throws WSDLException
{
    Types types = super.parseTypes(typesEl, def);

    // Try to add element to list
    addElementToList(typesEl, types);

    return types;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseBinding(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected Binding parseBinding(Element bindingEl, Definition def)
    throws WSDLException
{
    Binding binding = super.parseBinding(bindingEl, def);

    // Try to add element to list
    addElementToList(bindingEl, binding);

    return binding;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseBindingOperation(org.w3c.dom.Element,
 javax.wsdl.PortType, javax.wsdl.Definition)
 */
protected BindingOperation parseBindingOperation(
    Element bindingOperationEl,
    PortType portType,
    Definition def)
    throws WSDLException
{
    BindingOperation bindingOperation = null;

    // The follow try-catch was added to detect when a duplicate operation name was detected
    try
    {
        bindingOperation =
            super.parseBindingOperation(bindingOperationEl, portType, def);
    }
}

```



```

    }

    catch (IllegalArgumentException iae)
    {
        if (iae.getMessage().startsWith("Duplicate"))
        {
            bindingOperation =
                parseBindingOperationWithDuplicateNames(
                    bindingOperationEl,
                    portType,
                    def);
        }

        else
        {
            throw iae;
        }
    }

    // Try to add element to list
    if (bindingOperation != null)
    {
        addElementToList(bindingOperationEl, bindingOperation);
    }

    return bindingOperation;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseBindingInput(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected BindingInput parseBindingInput(
    Element bindingInputEl,
    Definition def)
    throws WSDLException
{
    BindingInput bindingInput = super.parseBindingInput(bindingInputEl, def);

    // Try to add element to list
    addElementToList(bindingInputEl, bindingInput);

    return bindingInput;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseBindingOutput(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected BindingOutput parseBindingOutput(

```

```

Element bindingOutputEl,
Definition def)
throws WSDLException
{
    BindingOutput bindingOutput =
        super.parseBindingOutput(bindingOutputEl, def);

    // Try to add element to list
    addElementToList(bindingOutputEl, bindingOutput);

    return bindingOutput;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseBindingFault(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected BindingFault parseBindingFault(
    Element bindingFaultEl,
    Definition def)
throws WSDLException
{
    BindingFault bindingFault = super.parseBindingFault(bindingFaultEl, def);

    // Try to add element to list
    addElementToList(bindingFaultEl, bindingFault);

    return bindingFault;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseMessage(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected Message parseMessage(Element msgEl, Definition def)
throws WSDLException
{
    Message msg = super.parseMessage(msgEl, def);

    // Try to add element to list
    addElementToList(msgEl, msg);

    return msg;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parsePart(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected Part parsePart(Element partEl, Definition def) throws WSDLException
{

```

```

//Part part = super.parsePart(partEl, def);

Part part = def.createPart();
String name = DOMUtils.getAttribute(partEl, Constants.ATTR_NAME);

// WS-I: The try-catch was added for WSI2416
QName elementName;

try
{
    elementName =
        DOMUtils.getQualifiedAttributeValue(
            partEl,
            Constants.ATTR_ELEMENT,
            Constants.ELEM_MESSAGE,
            false,
            def);
}

catch (WSDLException we)
{
    String prefixedValue =
        DOMUtils.getAttribute(partEl, Constants.ATTR_ELEMENT);
    int index = prefixedValue.indexOf(':');
    String localPart = prefixedValue.substring(index + 1);

    elementName = new QName(localPart);
}

QName typeName =
    DOMUtils.getQualifiedAttributeValue(
        partEl,
        Constants.ATTR_TYPE,
        Constants.ELEM_MESSAGE,
        false,
        def);

if (name != null)
{
    part.setName(name);
}

if (elementName != null)
{
    part.setElementName(elementName);
}

if (typeName != null)

```

```

    {
        part.setTypeNames(typeNames);
    }

    Element tempEl = DOMUtils.getFirstChildElement(partEl);

    while (tempEl != null)
    {
        if (QNameUtils.matches(Constants.Q_ELEM_DOCUMENTATION, tempEl))
        {
            part.setDocumentationElement(tempEl);
        }
        else
        {
            DOMUtils.throwWSDLException(tempEl);
        }

        tempEl = DOMUtils.getNextSiblingElement(tempEl);
    }

    parseExtensibilityAttributes(partEl, Part.class, part, def);
    // Map extensionAttributes = part.getExtensionAttributes();
    // extensionAttributes.putAll(getPartAttributes(partEl, def));

    // Need to do something here to locate part definition.

    // Try to add element to list
    addElementToList(partEl, part);

    return part;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parsePortType(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected PortType parsePortType(Element portTypeEl, Definition def)
    throws WSDLException
{
    PortType portType = super.parsePortType(portTypeEl, def);

    // Try to add element to list
    addElementToList(portTypeEl, portType);

    return portType;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseOperation(org.w3c.dom.Element, javax.wsdl.PortType,

```

```

javax.wsdl.Definition)
    */
protected Operation parseOperation(
    Element opEl,
    PortType portType,
    Definition def)
    throws WSDLException
{
    Operation op = super.parseOperation(opEl, portType, def);

    // Try to add element to list
    addElementToList(opEl, op);

    return op;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseService(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected Service parseService(Element serviceEl, Definition def)
    throws WSDLException
{
    Service service = super.parseService(serviceEl, def);

    // Try to add element to list
    addElementToList(serviceEl, service);

    return service;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parsePort(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected Port parsePort(Element portEl, Definition def) throws WSDLException
{
    Port port = super.parsePort(portEl, def);

    // Try to add element to list
    addElementToList(portEl, port);

    return port;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseExtensibilityElement(java.lang.Class, org.w3c.dom.Element,
 javax.wsdl.Definition)
 */
protected ExtensibilityElement parseExtensibilityElement(

```

```

Class parentType,
Element el,
Definition def)
throws WSDLException
{
    ExtensibilityElement extElement =
        super.parseExtensibilityElement(parentType, el, def);

    // Try to add element to list
    addElementToList(el, extElement);

    return extElement;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseInput(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected Input parseInput(Element inputEl, Definition def)
    throws WSDLException
{
    Input input = super.parseInput(inputEl, def);

    // Try to add element to list
    addElementToList(inputEl, input);

    return input;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseOutput(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected Output parseOutput(Element outputEl, Definition def)
    throws WSDLException
{
    Output output = super.parseOutput(outputEl, def);

    // Try to add element to list
    addElementToList(outputEl, output);

    return output;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#parseFault(org.w3c.dom.Element, javax.wsdl.Definition)
 */
protected Fault parseFault(Element faultEl, Definition def)
    throws WSDLException
{

```

```

Fault fault = super.parseFault(faultEl, def);

// Try to add element to list
addElementToList(faultEl, fault);

return fault;
}

/* (non-Javadoc)
 * @see com.ibm.wsdl.xml.WSDLReaderImpl#getDocument(org.xml.sax.InputSource, java.lang.String)
 */
protected Document getDocument(InputSource inputSource, String desc)
throws WSDLException
{
    ClassLoader currentLoader = Thread.currentThread().getContextClassLoader();
    try
    {
        Thread.currentThread().setContextClassLoader(WSDLReaderImpl.class.getClassLoader());

        //DocumentBuilderFactory factory = DocumentBuilderFactory.newInstance();
        DocumentBuilderFactory factory =
            new org.eclipse.wst.wsi.internal.core.xml.jaxp.DocumentBuilderFactoryImpl();

        factory.setNamespaceAware(true);
        factory.setValidating(false);

        DocumentBuilder builder = factory.newDocumentBuilder();
        Document doc = builder.parse(inputSource);

        return doc;
    }
    catch (Throwable t)
    {
        throw new WSDLException(
            WSDLException.PARSER_ERROR,
            "Problem parsing '" + desc + "'",
            t);
    }
    finally
    {
        Thread.currentThread().setContextClassLoader(currentLoader);
    }
}

/**
 * Get element list.
 * @return the element list.
 */

```

```

public WSDLElementList getElementList()
{
    return this.wsdElementList;
}

/**
 * Add WSDL element to element list.
 */
private void addElementToList(Element element, Object wsdElement)
{
    ElementLocation elementLocation = null;

    try
    {
        // See if the element object is an instance of org.apache.xerces.dom.ElementImpl
        ElementImpl elementImpl = (ElementImpl) element;

        // If it is, then get the element location information
        elementLocation =
            (ElementLocation) elementImpl.getUserData();

        // Add it to the list
        this.wsdElementList.addElement(wsdElement, elementLocation);
    }

    catch (ClassCastException cce)
    {
        // ADD: Should we add the element with a null or zero location?
    }
}

/**
 * This method is used when a WSDL document contains duplicate operation names.
 * It is the same as the original parseBindingOperation method, except that it will
 * just find the first operation that matches instead of throwing an exception.
 */
private BindingOperation parseBindingOperationWithDuplicateNames(
    Element bindingOperationEl,
    PortType portType,
    Definition def)
    throws WSDLException
{
    BindingOperation bindingOperation = def.createBindingOperation();
    String name =
        DOMUtils.getAttribute(bindingOperationEl, Constants.ATTR_NAME);

    if (name != null)
    {

```



```

bindingOperation.setName(name);
}

Element tempEl = DOMUtils.getFirstChildElement(bindingOperationEl);

while (tempEl != null)
{
if (QNameUtils.matches(Constants.Q_ELEM_DOCUMENTATION, tempEl))
{
bindingOperation.setDocumentationElement(tempEl);
}
else if (QNameUtils.matches(Constants.Q_ELEM_INPUT, tempEl))
{
bindingOperation.setBindingInput(parseBindingInput(tempEl, def));
}
else if (QNameUtils.matches(Constants.Q_ELEM_OUTPUT, tempEl))
{
bindingOperation.setBindingOutput(parseBindingOutput(tempEl, def));
}
else if (QNameUtils.matches(Constants.Q_ELEM_FAULT, tempEl))
{
bindingOperation.addBindingFault(parseBindingFault(tempEl, def));
}
else
{
bindingOperation.addExtensibilityElement(
parseExtensibilityElement(BindingOperation.class, tempEl, def));
}

tempEl = DOMUtils.getNextSiblingElement(tempEl);
}

if (portType != null)
{
BindingInput bindingInput = bindingOperation.getBindingInput();
BindingOutput bindingOutput = bindingOperation.getBindingOutput();
String inputName = (bindingInput != null ? bindingInput.getName() : null);
String outputName =
(bindingOutput != null ? bindingOutput.getName() : null);

//Operation op = portType.getOperation(name, inputName, outputName);
// Get all operations, and then find the first one that matches
Operation op = null, checkOperation;
Iterator iterator = portType.getOperations().iterator();
while (iterator.hasNext() && op == null)
{
// Get the next operation
checkOperation = (Operation) iterator.next();
}
}

```

```

// Get the operation name, input name, and output name
String checkName = checkOperation.getName();
String checkInputName =
    (checkOperation.getInput() == null
     ? null
     : checkOperation.getInput().getName());
String checkOutputName =
    (checkOperation.getOutput() == null
     ? null
     : checkOperation.getOutput().getName());

// If the names match, then that operation
if ((checkName != null && checkName.equals(name))
    && ((checkInputName != null && checkInputName.equals(inputName))
        || (checkInputName == null && inputName == null))
    && ((checkOutputName != null && checkOutputName.equals(outputName))
        || (checkOutputName == null && outputName == null)))
{
    op = checkOperation;
}

if (op == null)
{
    op = def.createOperation();
    op.setName(name);
    portType.addOperation(op);
}

bindingOperation.setOperation(op);
}

return bindingOperation;
}

protected ExtensibilityElement parseSchema(Class ccc, Element elem, Definition def) throws WSDLException
{
    ExtensibilityElement extElem = null;
    extElem = super.parseSchema(ccc, elem, def);

    // Try to add element to list
    addElementToList(elem, extElem);
    return extElem;
}

/*****
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```

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* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* <http://www.eclipse.org/legal/epl-v10.html>

* Contributors:

* IBM - Initial API and implementation

*****/

package org.eclipse.wst.wsi.internal.core.analyzer.config.impl;

import java.io.PrintWriter;
import java.io.StringWriter;

import org.eclipse.wst.wsi.internal.core.WSConstants;
import org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLElement;
import org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference;
import org.eclipse.wst.wsi.internal.core.xml.XMLUtils;

/**

* The implementation for a reference to a description artifact.

*

* @version 1.0.1

* @author Peter Brittenham (peterbr@us.ibm.com)

*/

public class WSDLReferenceImpl implements WSDLReference

{

/**

* WSDL element.

*/

protected WSDLElement wsdlElement = null;

/**

* Service location.

*/

protected String serviceLocation = null;

/**

* WSDL document location.

*/

protected String wsdlLocation = null;

/**

* Default constructor.

*/

public WSDLReferenceImpl()

{

}

```

/**
 * Constructor with all settings.
 * @param wsdlElement a WSDL element.
 * @param wsdlLocation a WSDL document location.
 * @param serviceLocation a service location.
 */
public WSDLReferenceImpl(
    WSDLElement wsdlElement,
    String wsdlLocation,
    String serviceLocation)
{
    this.wsdlElement = wsdlElement;
    this.wsdlLocation = wsdlLocation;
    this.serviceLocation = serviceLocation;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference#getWSDLElement()
 */
public WSDLElement getWSDLElement()
{
    return this.wsdlElement;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference#setWSDLElement(WSDLElement)
 */
public void setWSDLElement(WSDLElement wsdlElement)
{
    this.wsdlElement = wsdlElement;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference#getWSDLLocation()
 */
public String getWSDLLocation()
{
    return this.wsdlLocation;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference#setWSDLLocation()
 */
public void setWSDLLocation(String wsdlLocation)
{
    this.wsdlLocation = wsdlLocation;
}

```

```

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference#getServiceLocation()
 */
public String getServiceLocation()
{
    return this.serviceLocation;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference#setServiceLocation()
 */
public void setServiceLocation(String serviceLocation)
{
    this.serviceLocation = serviceLocation;
}

/**
 * Get string representation of this object.
 */
public String toString()
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    pw.println(" WSDL Reference:");
    pw.print(this.wsdlElement.toString());
    pw.println(" wsdlURI ..... " + this.wsdlLocation);
    if (this.serviceLocation != null)
        pw.println(" serviceLocation ..... " + this.serviceLocation);

    return sw.toString();
}

/**
 * @see org.eclipse.wst.wsi.internal.core.document.DocumentElement#toXMLString(String)
 */
public String toXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // Element
    pw.println("    <" + nsName + ELEM_NAME + ">");
    pw.print(getWSDLElement().toXMLString(nsName));
}

```

```

pw.print("    <" + nsName + WSIConstants.ELEM_WSDL_URI + ">");
pw.print(getWSDLLocation());
pw.println("</" + nsName + WSIConstants.ELEM_WSDL_URI + ">");

if (this.serviceLocation != null)
{
    pw.print("    <" + nsName + WSIConstants.ELEM_SERVICE_LOCATION + ">");
    pw.print(XMLUtils.xmlEscapedString(getServiceLocation()));
    pw.println("</" + nsName + WSIConstants.ELEM_SERVICE_LOCATION + ">");
}

pw.println("    </" + nsName + ELEM_NAME + ">");

return sw.toString();
}

}

/*****
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* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* IBM - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.analyzer.config.impl;

import java.io.File;
import java.io.PrintWriter;
import java.io.StringWriter;

import org.eclipse.wst.wsi.internal.core.WSIConstants;
import org.eclipse.wst.wsi.internal.core.WSIException;
import org.eclipse.wst.wsi.internal.core.analyzer.Analyzer;
import org.eclipse.wst.wsi.internal.core.analyzer.config.AnalyzerConfig;
import org.eclipse.wst.wsi.internal.core.analyzer.config.AnalyzerConfigReader;
import org.eclipse.wst.wsi.internal.core.analyzer.config.AssertionResultType;
import org.eclipse.wst.wsi.internal.core.analyzer.config.AssertionResultsOption;
import org.eclipse.wst.wsi.internal.core.analyzer.config.UDDIReference;
import org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLElement;
import org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference;
import org.eclipse.wst.wsi.internal.core.common.AddStyleSheet;
import org.eclipse.wst.wsi.internal.core.common.impl.AddStyleSheetImpl;
import org.eclipse.wst.wsi.internal.core.util.MessageList;
import org.eclipse.wst.wsi.internal.core.util.Utils;

```

```

/**
 * This class is an implementation of the analyzer configuration file interface.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class AnalyzerConfigImpl implements AnalyzerConfig
{
    /**
     * Message list reference.
     */
    protected MessageList messageList = null;

    /**
     * Analyzer configuration file URI.
     */
    protected String configURI = null;

    /**
     * Optional description.
     */
    protected String description = null;

    /**
     * Verbose option.
     */
    protected boolean verbose = false;

    /**
     * Assertion results option.
     */
    protected AssertionResultsOption assertionResultsOption =
        new AssertionResultsOptionImpl();

    /**
     * Report location.
     */
    protected String reportURI = WSICConstants.DEFAULT_REPORT_URI;

    /**
     * Replace report indicator.
     */
    protected boolean replaceReport = false;

    /**
     * Add style sheet.
     */
    protected AddStyleSheet addStyleSheet;

```

```

/**
 * Profile test assertions document location.
 */
protected String testAssertionsDocumentURI =
    WSConstants.DEFAULT_TEST_ASSERTIONS_DOCUMENT_URI;

/**
 * Message log location.
 */
protected String logURI = null;

/**
 * Message correlation type.
 */
protected String correlationType =
    WSConstants.ATTRVAL_CORRELATION_TYPE_OPERATION;

/**
 * WSDL reference.
 */
protected WSDLReference wsdlReference = null;

/**
 * UDDI reference.
 */
protected UDDIReference uddiReference = null;

/**
 * Default constructor.
 */
public AnalyzerConfigImpl()
{
}

/**
 * Constructor with all settings.
 * @param description      an optional description.
 * @param verbose          the verbose option.
 * @param assertionResultsOption  an assertion results option.
 * @param reportURI        report location.
 * @param replaceReport    a replace report indicator.
 * @param addStyleSheet    add style sheet.
 * @param testAssertionsDocumentURI  profile test assertions document location.
 * @param logURI           message log location.
 * @param correlationType  message correlation type.
 * @param wsdlReference    a WSDL reference..
 * @param uddiReference    a UDDI reference.

```



```

*/
public AnalyzerConfigImpl(
    String description,
    boolean verbose,
    AssertionResultsOption assertionResultsOption,
    String reportURI,
    boolean replaceReport,
    AddStyleSheet addStyleSheet,
    String testAssertionsDocumentURI,
    String logURI,
    String correlationType,
    WSDLReference wsdlReference,
    UDDIReference uddiReference)
{
    this.description = description;
    this.verbose = verbose;
    this.assertionResultsOption = assertionResultsOption;
    this.reportURI = reportURI;
    this.replaceReport = replaceReport;
    this.addStyleSheet = addStyleSheet;
    this.testAssertionsDocumentURI = testAssertionsDocumentURI;
    this.logURI = logURI;
    this.correlationType = correlationType;
    this.wsdlReference = wsdlReference;
    this.uddiReference = uddiReference;
}

/**
 * Initialize analyzer config.
 */
public void init(MessageList messageList)
{
    this.messageList = messageList;
}

/**
 * Get optional description.
 * @see #setDescription
 */
public String getDescription()
{
    return this.description;
}

/**
 * Set optional description.
 * @see #getDescription
 */

```

```

public void setDescription(String description)
{
    this.description = description;
}

/**
 * @see #setVerboseOption
 */
public boolean getVerboseOption()
{
    return this.verbose;
}

/**
 * @see #getVerboseOption
 */
public void setVerboseOption(boolean verbose)
{
    this.verbose = verbose;
}

/**
 * Get assertion results option.
 * @see #setAssertionResultsOption
 */
public AssertionResultsOption getAssertionResultsOption()
{
    return this.assertionResultsOption;
}

/**
 * Set assertion results option.
 * @see #getAssertionResultsOption
 */
public void setAssertionResultsOption(AssertionResultsOption assertionResultsOption)
{
    this.assertionResultsOption = assertionResultsOption;
}

/**
 * @see #setReportLocation
 */
public String getReportLocation()
{
    return this.reportURI;
}

/**

```

```

* @see #getReportLocation
*/
public void setReportLocation(String reportURI)
{
    this.reportURI = reportURI;
}

/**
 * Get replace report file option.
 * @see #setReplaceReport
 */
public boolean getReplaceReport()
{
    return this.replaceReport;
}

/**
 * Set report file location.
 * @see #getReplaceReport
 */
public void setReplaceReport(boolean replaceReport)
{
    this.replaceReport = replaceReport;
}

/**
 * Get add style sheet.
 * @see #setAddStyleSheet
 */
public AddStyleSheet getAddStyleSheet()
{
    return this.addStyleSheet;
}

/**
 * Set replace report file option.
 * @see #getAddStyleSheet
 */
public void setAddStyleSheet(AddStyleSheet addStyleSheet)
{
    this.addStyleSheet = addStyleSheet;
}

/**
 * @see #setTestAssertionDocumentLocation
 */
public String getTestAssertionsDocumentLocation()
{

```

```

    return this.testAssertionsDocumentURI;
}

/**
 * @see #getTestAssertionDocumentLocation
 */
public void setTestAssertionsDocumentLocation(String testAssertionsDocumentURI)
{
    this.testAssertionsDocumentURI = testAssertionsDocumentURI;
}

/**
 * @see #setLogLocation
 */
public String getLogLocation()
{
    return logURI;
}

/**
 * @see #getLogLocation
 */
public void setLogLocation(String logURI)
{
    this.logURI = logURI;
}

public boolean isLogSet()
{
    return (logURI != null);
}

/**
 * Get correlation type.
 * @see #setCorrelationType
 */
public String getCorrelationType()
{
    return this.correlationType;
}

/**
 * Set correlation type.
 * @see #getCorrelationType
 *
 */
public void setCorrelationType(String correlationType)
{

```

```

    this.correlationType = correlationType;
}

/**
 * Is WSDL reference set.
 */
public boolean isWSDLReferenceSet()
{
    return (this.wsdlReference == null ? false : true);
}

/**
 * Get WSDL reference.
 * @see #setWSDLReference
 */
public WSDLReference getWSDLReference()
{
    return this.wsdlReference;
}

/**
 * Set WSDL reference.
 * @see #getWSDLReference
 */
public void setWSDLReference(WSDLReference wsdlReference)
{
    this.wsdlReference = wsdlReference;
}

/**
 * Get WSDL element.
 *
 */
public WSDLElement getWSDLElement()
{
    return (this.wsdlReference == null)
        ? null
        : this.wsdlReference.getWSDLElement();
}

/**
 * Get service location.
 */
public String getServiceLocation()
{
    return (this.wsdlReference == null)
        ? null
        : this.wsdlReference.getServiceLocation();
}

```

```

}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.AnalyzerConfig#getWSDLLocation()
 */
public String getWSDLLocation()
{
    return (this.wsdlReference == null)
        ? null
        : this.wsdlReference.getWSDLLocation();
}

/**
 * @see org.wsi.test.analyzer.config.AnalyzerConfig#isUddiReferenceSet()
 */
public boolean isUDDIReferenceSet()
{
    return (this.uddiReference == null ? false : true);
}

/**
 * Get UDDI reference.
 * @see #setUDDIReference
 */
public UDDIReference getUDDIReference()
{
    return this.uddiReference;
}

/**
 * Set UDDI reference.
 * @see #getUDDIReference
 */
public void setUDDIReference(UDDIReference uddiReference)
{
    this.uddiReference = uddiReference;
}

/**
 * @see #setLocation
 */
public String getLocation()
{
    return configURI;
}

/**
 * @see getLocation

```

```

*/
public void setLocation(String configURI)
{
    this.configURI = configURI;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.document.WSIDocument#toXMLString()
 */
public String toXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // Start element
    pw.println(" <" + nsName + ELEM_NAME + ">");

    // Verbose option
    pw.print(" <" + nsName + WSIConstants.ELEM_VERBOSE + ">");
    pw.print(getVerboseOption());
    pw.println("<" + nsName + WSIConstants.ELEM_VERBOSE + ">");

    // Get assertion results option
    pw.print(assertionResultsOption.toXMLString(nsName));

    // report file
    pw.print(" <" + nsName + WSIConstants.ELEM_REPORT_FILE + " ");
    pw.print(WSIConstants.ATTR_REPLACE + "=\"" + getReplaceReport() + "\" ");
    pw.println(
        WSIConstants.ATTR_LOCATION + "=\"" + getReportLocation() + "\">");
    pw.print(getAddStyleSheet().toXMLString(namespaceName));
    pw.println(" <" + nsName + WSIConstants.ELEM_REPORT_FILE + ">");

    // test assertion file
    pw.print(
        " <" + nsName + WSIConstants.ELEM_TEST_ASSERTIONS_FILE + ">");
    pw.print(getTestAssertionsDocumentLocation());
    pw.println("<" + nsName + WSIConstants.ELEM_TEST_ASSERTIONS_FILE + ">");

    // log file
    pw.print(" <" + nsName + WSIConstants.ELEM_LOG_FILE);
    pw.print(
        " "
        + WSIConstants.ATTR_CORRELATION_TYPE

```

```

    + "\\"
    + this.correlationType
    + "\">");
pw.print(getLogLocation());
pw.println("</" + nsName + WSIConstants.ELEM_LOG_FILE + ">");

// WSDL reference
if (this.wsdlReference != null)
{
    pw.print(getWSDLReference().toXMLString(nsName));
}

// UDDI Reference
if (this.uddiReference != null)
{
    pw.print(getUDDIReference().toXMLString(nsName));
}

// End element
pw.println(" </" + nsName + ELEM_NAME + ">");

return sw.toString();
}

/**
 * Get string representation of this object.
 */
public String toString()
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    // verbose option
    pw.println(" verbose ..... " + this.verbose);

    // assertionResults options
    pw.print(this.assertionResultsOption.toString());

    // reportFile options
    pw.println(" Report File:");
    pw.println("  replace ..... " + this.replaceReport);
    pw.println("  location ..... " + this.reportURI);
    if (this.addStyleSheet != null)
    {
        pw.println("  Style Sheet:");
        if (this.addStyleSheet.getHref() != null)
            pw.println(
                "    href ..... " + this.addStyleSheet.getHref());
    }
}

```



```

if (this.addStyleSheet.getType() != null)
    pw.println(
        "    type ..... " + this.addStyleSheet.getType());
if (this.addStyleSheet.getTitle() != null)
    pw.println(
        "    title ..... " + this.addStyleSheet.getTitle());
if (this.addStyleSheet.getMedia() != null)
    pw.println(
        "    media ..... " + this.addStyleSheet.getMedia());
if (this.addStyleSheet.getCharset() != null)
    pw.println(
        "    charset ..... " + this.addStyleSheet.getCharset());
if (this.addStyleSheet.getAlternate() != null)
    pw.println(
        "    alternate ..... "
        + this.addStyleSheet.getAlternate());
}

// testAssertionsFile parameter
pw.println(
    " testAssertionsFile ..... " + this.testAssertionsDocumentURI);

// logFile options
if (this.logURI != null)
{
    pw.println(" Message Log File:");
    pw.println(" location ..... " + this.logURI);
    pw.println(" correlationType ..... " + this.correlationType);
}

// wsdlReference options
if (this.isWSDLReferenceSet())
{
    pw.print(this.wsdlReference.toString());
}

// uddiReference options
if (this.isUDDIReferenceSet())
{
    pw.print(this.uddiReference.toString());
}

// description parameter
if (this.description != null)
{
    pw.println(" description ..... " + this.description);
}

```

```

    return sw.toString();
}

/**
 * Set config values from another analyzer config object.
 */
private void setConfig(AnalyzerConfig analyzerConfig)
{
    this.configURI = analyzerConfig.getLocation();
    this.description = analyzerConfig.getDescription();
    this.verbose = analyzerConfig.getVerboseOption();
    this.assertionResultsOption = analyzerConfig.getAssertionResultsOption();
    this.reportURI = analyzerConfig.getReportLocation();
    this.replaceReport = analyzerConfig.getReplaceReport();
    this.logURI = analyzerConfig.getLogLocation();
    this.correlationType = analyzerConfig.getCorrelationType();
    this.testAssertionsDocumentURI =
        analyzerConfig.getTestAssertionsDocumentLocation();
    this.addStyleSheet = analyzerConfig.getAddStyleSheet();
    this.wsdlReference = analyzerConfig.getWSDLReference();
    this.uddiReference = analyzerConfig.getUDDIReference();
}

/**
 * Parse command line arguments.
 */
public void parseArgs(String[] args, boolean validate) throws WSIException
{
    WSDLReference wsdlReference = null;
    UDDIReference uddiReference = null;

    // Get new config reader
    AnalyzerConfigReader analyzerConfigReader = new AnalyzerConfigReaderImpl();
    analyzerConfigReader.init(this.messageList);

    // Analyzer config object which will be merged after all of the input parms are processed
    AnalyzerConfig analyzerConfigFromArgs = null;

    // Assertion results option
    AssertionResultsOption assertionResultsOption = null;

    // If no input arguments, then throw exception
    if (args.length == 0)
    {
        // ADD:
        throw new IllegalArgumentException(
            getMessage("usage01", Analyzer.USAGE_MESSAGE));
    }
}

```

```

// Parse the command line arguments to locate the config file option (if it was specified)
for (int argCount = 0; argCount < args.length; argCount++)
{
    // -config
    if ((args[argCount].equalsIgnoreCase("-config"))
        || (args[argCount].equals("-c")))
    {
        argCount++;
        analyzerConfigFromArgs =
            analyzerConfigReader.readAnalyzerConfig(
                getOptionValue(args, argCount));
    }
}

// If config file was not specified, then create analyzer config object
if (analyzerConfigFromArgs == null)
{
    analyzerConfigFromArgs = new AnalyzerConfigImpl();
    analyzerConfigFromArgs.init(this.messageList);
}

// Get assertion results option
if ((assertionResultsOption =
    analyzerConfigFromArgs.getAssertionResultsOption())
    == null)
{
    assertionResultsOption = new AssertionResultsOptionImpl();
    analyzerConfigFromArgs.setAssertionResultsOption(assertionResultsOption);
}

// Parse all of the command line arguments
for (int argCount = 0; argCount < args.length; argCount++)
{
    // -config
    if ((args[argCount].equalsIgnoreCase("-config"))
        || (args[argCount].equals("-c")))
    {
        // Skip this option since it was already processed
        argCount++;
    }

    // -verbose
    else if (
        (args[argCount].equalsIgnoreCase("-verbose"))
        || (args[argCount].equals("-v")))
    {
        argCount++;
    }
}

```

```

analyzerConfigFromArgs.setVerboseOption(
    Boolean.valueOf(getOptionValue(args, argCount)).booleanValue());
}

// -assertionResults
else if (
    (args[argCount].equalsIgnoreCase("-assertionResults"))
    || (args[argCount].equals("-a")))
{
    argCount++;
    assertionResultsOption.setAssertionResultType(
        AssertionResultType.newInstance(getOptionValue(args, argCount)));
}

// -messageEntry
else if (
    (args[argCount].equalsIgnoreCase("-messageEntry"))
    || (args[argCount].equals("-M")))
{
    argCount++;
    assertionResultsOption.setShowMessageEntry(
        Boolean.valueOf(getOptionValue(args, argCount)).booleanValue());
}

// -assertionDescription
else if (
    (args[argCount].equalsIgnoreCase("-assertionDescription"))
    || (args[argCount].equals("-A")))
{
    argCount++;
    assertionResultsOption.setShowAssertionDescription(
        Boolean.valueOf(args[argCount]).booleanValue());
}

// -failureMessage
else if (
    (args[argCount].equalsIgnoreCase("-failureMessage"))
    || (args[argCount].equals("-F")))
{
    argCount++;
    assertionResultsOption.setShowFailureMessage(
        Boolean.valueOf(getOptionValue(args, argCount)).booleanValue());
}

// -failureDetail
else if (
    (args[argCount].equalsIgnoreCase("-failureDetail"))
    || (args[argCount].equals("-D")))

```

```

{
    argCount++;
    assertionResultsOption.setShowFailureDetail(
        Boolean.valueOf(getOptionValue(args, argCount)).booleanValue());
}

// -logFile
else if (
    (args[argCount].equalsIgnoreCase("-logFile"))
    || (args[argCount].equals("-l")))
{
    argCount++;
    analyzerConfigFromArgs.setLogLocation(getOptionValue(args, argCount));
}

// -testAssertionFile
else if (
    (args[argCount].equalsIgnoreCase("-testAssertionFile"))
    || (args[argCount].equals("-t")))
{
    argCount++;
    analyzerConfigFromArgs.setTestAssertionsDocumentLocation(
        getOptionValue(args, argCount));
}

// -reportFile
else if (
    (args[argCount].equalsIgnoreCase("-reportFile"))
    || (args[argCount].equals("-r")))
{
    argCount++;
    analyzerConfigFromArgs.setReportLocation(
        getOptionValue(args, argCount));
}

// -replace
else if (
    (args[argCount].equalsIgnoreCase("-replace"))
    || (args[argCount].equals("-R")))
{
    argCount++;
    analyzerConfigFromArgs.setReplaceReport(
        Boolean.valueOf(getOptionValue(args, argCount)).booleanValue());
}

// -correlationType
else if (
    (args[argCount].equalsIgnoreCase("-correlationType"))

```

```

    || (args[argCount].equals("-C")))
    {
        argCount++;
        analyzerConfigFromArgs.setCorrelationType(
            getOptionValue(args, argCount));
    }

// -wsdlElement
else if (
    (args[argCount].equalsIgnoreCase("-wsdlElement"))
    || (args[argCount].equals("-W")))
    {
        String optionName = args[argCount];
        argCount++;

        WSDLElement wsdlElement = new WSDLElementImpl();
        wsdlElement.setName(getOptionValue(args, argCount, optionName));
        argCount++;
        wsdlElement.setType(getOptionValue(args, argCount, optionName));
        argCount++;
        wsdlElement.setNamespace(getOptionValue(args, argCount, optionName));
        if (!args[argCount].startsWith("-"))
        {
            argCount++;
            wsdlElement.setParentElementName(
                getOptionValue(args, argCount, optionName));
        }

        if (wsdlReference != null)
        {
            wsdlReference.setWSDLElement(wsdlElement);
        }
        else if (uddiReference != null)
        {
            uddiReference.setWSDLElement(wsdlElement);
        }
        else
        {
            throw new IllegalArgumentException(
                getMessage(
                    "config10",
                    "The -wsdlElement option must appear after the -wsdlURI or -uddiKey options."));
        }

        analyzerConfigFromArgs.setWSDLReference(wsdlReference);
    }

// -serviceLocation

```

```

else if (
    (args[argCount].equalsIgnoreCase("-serviceLocation"))
    || (args[argCount].equals("-S")))
{
    argCount++;

    if (wsdlReference != null)
    {
        wsdlReference.setServiceLocation(getOptionValue(args, argCount));
    }
    else if (uddiReference != null)
    {
        uddiReference.setServiceLocation(getOptionValue(args, argCount));
    }
    else
    {
        throw new IllegalArgumentException(
            getMessage(
                "config11",
                "The -serviceLocation option must appear after the -wsdlURI or -uddiKey options."));
    }
}

// -wsdlURI
else if (
    (args[argCount].equalsIgnoreCase("-wsdlURI"))
    || (args[argCount].equals("-W")))
{
    argCount++;
    if (wsdlReference == null)
        wsdlReference = new WSDLReferenceImpl();
    wsdlReference.setWSDLLocation(getOptionValue(args, argCount));
    analyzerConfigFromArgs.setWSDLReference(wsdlReference);
}

// -uddiKeyType
else if (
    (args[argCount].equalsIgnoreCase("-uddiKeyType"))
    || (args[argCount].equals("-K")))
{
    argCount++;
    if (uddiReference == null)
        uddiReference = new UDDIReferenceImpl();
    uddiReference.setKeyType(getOptionValue(args, argCount));
    analyzerConfigFromArgs.setUDDIReference(uddiReference);
}

// -uddiKey

```

```

else if (
    (args[argCount].equalsIgnoreCase("-uddiKey"))
    || (args[argCount].equals("-k")))
{
    argCount++;
    if (uddiReference == null)
        uddiReference = new UDDIReferenceImpl();
    uddiReference.setKey(getOptionValue(args, argCount));
    analyzerConfigFromArgs.setUDDIReference(uddiReference);
}

// -inquiryURL
else if (
    (args[argCount].equalsIgnoreCase("-inquiryURL"))
    || (args[argCount].equals("-i")))
{
    argCount++;
    if (uddiReference == null)
        uddiReference = new UDDIReferenceImpl();
    uddiReference.setInquiryURL(getOptionValue(args, argCount));
    analyzerConfigFromArgs.setUDDIReference(uddiReference);
}

// ADD: Need to add support for other options (-config, -binding, etc.)
else
{
    throw new IllegalArgumentException(
        getMessage(
            "config12",
            args[argCount],
            "The specified option is not supported:"));
}
}

// If addStyleSheet was not specified, then create a comment version of it
if (analyzerConfigFromArgs.getAddStyleSheet() == null)
{
    AddStyleSheet addStyleSheet = new AddStyleSheetImpl();
    addStyleSheet.setHref(WSIConstants.DEFAULT_REPORT_XSL);
    addStyleSheet.setType(WSIConstants.DEFAULT_XSL_TYPE);
    addStyleSheet.setComment(true);
    analyzerConfigFromArgs.setAddStyleSheet(addStyleSheet);
}

// Merge config info into this object
setConfig(analyzerConfigFromArgs);

if (validate)

```



```

    {
        // Verify that all required options were specified and
        // that the specified ones were correct
        checkConfigOptions();
    }
}

/**
 * Verify config options.
 */
private void checkConfigOptions() throws WSIException
{
    String fileLocation;

    // If wsdlReference and uddiReference specified, then throw exception
    if ((this.isWSDLReferenceSet()) && (this.isUDDIReferenceSet()))
    {
        throw new IllegalArgumentException(
            getMessage(
                "config04",
                "Can not specify both the WSDL reference and UDDI reference options"));
    }

    // Check if test assertion file exists
    if ((fileLocation = this.getTestAssertionsDocumentLocation()) == null)
    {
        throw new IllegalArgumentException(
            getMessage(
                "config16",
                "Test assertion document location must be specified."));
    }

    else if (!Utils.fileExists(fileLocation))
    {
        throw new IllegalArgumentException(
            getMessage(
                "config14",
                fileLocation,
                "Could not find test assertion document. Specified file location:"));
    }

    // Check if log file exists
    if ((fileLocation = this.getLogLocation()) != null)
    {
        if (!Utils.fileExists(fileLocation))
            throw new IllegalArgumentException(
                messageList.getMessage(
                    "config02",

```

```

        fileLocation,
        "Could not find log file:"));
    }

// Check if WSDL file exists
if ((this.getWSDLReference() != null)
    && (fileLocation = this.getWSDLReference().getWSDLLocation()) != null)
{
    if (!Utils.fileExists(fileLocation))
        throw new IllegalArgumentException(
            messageList.getMessage(
                "config03",
                fileLocation,
                "Could not find WSDL file:"));
}

File file = null;
try
{
    // Get file object for report file
    file = new File(this.getReportLocation());
}

catch (Exception e)
{
    throw new IllegalArgumentException(
        messageList.getMessage(
            "config17",
            "Could not get report file location."));
}

// If replace flag is false and file exists, then throw exception
if (file.exists() && !this.getReplaceReport())
{
    throw new IllegalArgumentException(
        messageList.getMessage(
            "config15",
            "Report file already exists and replace option was not specified."));
}

if (correlationType != null
    && !this.correlationType.equals(
        WSIConstants.ATTRVAL_CORRELATION_TYPE_ENDPOINT)
    && !this.correlationType.equals(
        WSIConstants.ATTRVAL_CORRELATION_TYPE_NAMESPACE)
    && !this.correlationType.equals(
        WSIConstants.ATTRVAL_CORRELATION_TYPE_OPERATION))
{

```

```

        throw new IllegalArgumentException(
            messageList.getMessage(
                "config18",
                "Invalid correlation type specified."));
    }
}

/**
 * Get option value.
 */
private String getOptionValue(String[] args, int index) throws WSIException
{
    return getOptionValue(args, index, args[index - 1]);
}

/**
 * Get option value.
 */
private String getOptionValue(String[] args, int index, String optionName)
    throws WSIException
{
    // If index greater than array length, then throw exception
    if (index >= args.length)
    {
        throw new IllegalArgumentException(
            getMessage(
                "config13",
                optionName,
                "Option did not contain a value. Specified option:"));
    }

    // If the value is an option (i.e. starts with "-"), then throw exception
    if (args[index].startsWith("-"))
    {
        throw new IllegalArgumentException(
            getMessage(
                "config13",
                optionName,
                "Option did not contain a value. Specified option:"));
    }

    return (args[index]);
}

/**
 * Get message from resource bundle.
 */
private String getMessage(String messageID, String defaultMessage)

```

```

{
    return getMessage(messageID, null, defaultMessage);
}

/**
 * Get message from resource bundle.
 */
private String getMessage(
    String messageID,
    String messageData,
    String defaultMessage)
{
    String message = defaultMessage;
    if (messageList != null)
        message = messageList.getMessage(messageID, messageData, defaultMessage);
    else if (messageData != null)
        message += " " + messageData + ".";

    return message;
}
}
}
/*****
 * Copyright (c) 2002-2005 IBM Corporation and others.
 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 * IBM - Initial API and implementation
 *****/
package org.eclipse.wst.wsi.internal.core.analyzer.config.impl;

import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.Reader;
import java.util.ArrayList;
import java.util.List;

import org.eclipse.wst.wsi.internal.core.WSIConstants;
import org.eclipse.wst.wsi.internal.core.WSIException;
import org.eclipse.wst.wsi.internal.core.WSIFileNotFoundException;
import org.eclipse.wst.wsi.internal.core.analyzer.config.AnalyzerConfig;
import org.eclipse.wst.wsi.internal.core.analyzer.config.AnalyzerConfigReader;
import org.eclipse.wst.wsi.internal.core.analyzer.config.AssertionResultType;
import org.eclipse.wst.wsi.internal.core.analyzer.config.AssertionResultsOption;
import org.eclipse.wst.wsi.internal.core.analyzer.config.UDDIReference;
import org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLElement;

```

```

import org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference;
import org.eclipse.wst.wsi.internal.core.common.AddStyleSheet;
import org.eclipse.wst.wsi.internal.core.common.impl.AddStyleSheetImpl;
import org.eclipse.wst.wsi.internal.core.profile.validator.WSDLValidator;
import org.eclipse.wst.wsi.internal.core.util.MessageList;
import org.eclipse.wst.wsi.internal.core.util.TestUtils;
import org.eclipse.wst.wsi.internal.core.xml.XMLUtils;
import org.w3c.dom.Document;
import org.w3c.dom.Element;

/**
 * This class is the implementation used to read the analyzer config documents.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class AnalyzerConfigReaderImpl implements AnalyzerConfigReader
{
    /**
     * Message list.
     */
    protected MessageList messageList;

    /**
     * Document location.
     */
    protected String documentURI;

    /**
     * Initialize analyzer config reader.
     */
    public void init(MessageList messageList)
    {
        this.messageList = messageList;
    }

    /**
     * @see org.eclipse.wst.wsi.internal.core.analyzer.config.AnalyzerConfigReader#readAnalyzerConfig(String)
     */
    public AnalyzerConfig readAnalyzerConfig(String analyzerConfigURI)
        throws WSIException
    {
        {
            FileReader fileReader = null;
            try
            {
                fileReader = new FileReader(analyzerConfigURI);
            }

```

```

catch (FileNotFoundException fnfe)
{
    throw new WSIFileNotFoundException(
        getMessage(
            "config01",
            analyzerConfigURI,
            "Could not find analyzer config file: "),
        fnfe);
}

catch (Exception e)
{
    throw new WSIException(
        getMessage(
            "config08",
            analyzerConfigURI,
            "Could not read analyzer config file: "),
        e);
}

return readAnalyzerConfig(fileReader);
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.AnalyzerConfigReader#readAnalyzerConfig(Reader)
 */
public AnalyzerConfig readAnalyzerConfig(Reader reader) throws WSIException
{
    AnalyzerConfig analyzerConfig = new AnalyzerConfigImpl();

    // Parse XML
    Document doc = XMLUtils.parseXML(reader);

    // Parse elements in the config document
    parseConfigElement(analyzerConfig, doc.getDocumentElement());

    return analyzerConfig;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.document.DocumentReader#getLocation()
 */
public String getLocation()
{
    return this.documentURI;
}

```

```

/**
 * @see org.eclipse.wst.wsi.internal.core.document.DocumentReader#setLocation(String)
 */
public void setLocation(String documentURI)
{
    this.documentURI = documentURI;
}

/**
 * Parse config element.
 */
private void parseConfigElement(
    AnalyzerConfig analyzerConfig,
    Element element)
    throws WSIException
{
    // ADD: Get name and version

    // ADD: Verify that this is the config element

    // Get first child element
    Element nextElement = XMLUtils.getFirstChild(element);

    // DEBUG:
    //System.out.println("Element name: " + nextElement.getClass().getName());

    // Process each child element
    while (nextElement != null)
    {
        // <description>
        if (isElement(nextElement, WSIConstants.ELEM_DESCRIPTION))
        {
            analyzerConfig.setDescription(XMLUtils.getText(nextElement));
        }

        // <verbose>
        else if (isElement(nextElement, WSIConstants.ELEM_VERBOSE))
        {
            analyzerConfig.setVerboseOption(
                XMLUtils.getBooleanValue(nextElement, false));
        }

        // <assertionResults>
        else if (isElement(nextElement, WSIConstants.ELEM_ASSERTION_RESULTS))
        {
            // Create assertion results option object
            AssertionResultsOption assertionResultsOption =
                new AssertionResultsOptionImpl();
        }
    }
}

```

```

analyzerConfig.setAssertionResultsOption(assertionResultsOption);

// Set result type
String resultType =
    XMLUtils.getAttributeValue(nextElement, WSIConstants.ATTR_TYPE);
assertionResultsOption.setAssertionResultType(
    AssertionResultType.newInstance(resultType));

// Set show log entry
assertionResultsOption.setShowMessageEntry(
    XMLUtils.getBooleanValue(
        nextElement,
        WSIConstants.ATTR_MESSAGE_ENTRY,
        assertionResultsOption.getShowMessageEntry()));

// Set show failure message
assertionResultsOption.setShowFailureMessage(
    XMLUtils.getBooleanValue(
        nextElement,
        WSIConstants.ATTR_FAILURE_MESSAGE,
        assertionResultsOption.getShowFailureMessage()));

// Set show failure detail
assertionResultsOption.setShowFailureDetail(
    XMLUtils.getBooleanValue(
        nextElement,
        WSIConstants.ATTR_FAILURE_DETAIL,
        assertionResultsOption.getShowFailureDetail()));

// REMOVE: Set show warning message
//assertionResultsOption.setShowWarningMessage(XMLUtils.getBooleanValue(nextElement,
//    WSIConstants.ATTR_WARNING_MESSAGE, assertionResultsOption.getShowWarningMessage()));
}

// <reportFile>
else if (isElement(nextElement, WSIConstants.ELEM_REPORT_FILE))
{
    parseReportFileElement(analyzerConfig, nextElement);
}

// <testAssertionFile>
else if (isElement(nextElement, WSIConstants.ELEM_TEST_ASSERTIONS_FILE))
{
    analyzerConfig.setTestAssertionsDocumentLocation(
        XMLUtils.getText(nextElement));
}

// <logFile>

```



```

else if (isElement(nextElement, WSConstants.ELEM_LOG_FILE))
{
    String correlationType =
        XMLUtils.getAttributeValue(
            nextElement,
            WSConstants.ATTR_CORRELATION_TYPE);
    analyzerConfig.setCorrelationType(
        correlationType == null ? "operation" : correlationType);
    analyzerConfig.setLogLocation(XMLUtils.getText(nextElement));
}

// <wsdlReference>
else if (isElement(nextElement, WSConstants.ELEM_WSDL_REFERENCE))
{
    parseWsdlReference(analyzerConfig, nextElement);
}

// <uddiReference>
else if (isElement(nextElement, WSConstants.ELEM_UDDI_REFERENCE))
{
    parseUddiReference(analyzerConfig, nextElement);
}

else
{
    // Throw exception
    throw new IllegalArgumentException(
        getMessage(
            "config06",
            nextElement.getLocalName(),
            "Invalid analyzer config element:"));
}

// Get next element
nextElement = XMLUtils.getNextSibling(nextElement);
}
}

/**
 * Parse reportFile element.
 */
private void parseReportFileElement(
    AnalyzerConfig analyzerConfig,
    Element element)
    throws WSIException
{
    // Get report location and replace indicator
    analyzerConfig.setReplaceReport(

```

```

XMLUtils.getBooleanValue(element, WSConstants.ATTR_REPLACE, false));
analyzerConfig.setReportLocation(
XMLUtils.getAttributeValue(
    element,
    WSConstants.ATTR_LOCATION,
    WSConstants.DEFAULT_REPORT_URI));

// ADD: If the report location wasn't specified, then throw an exception
//if (analyzerConfig.getReportLocation() == null)
// throw new WSIException("The analyzer configuration file must contain the report file location.");

// Get first child element
Element nextElement = XMLUtils.getFirstChild(element);

// Process each child element
while (nextElement != null)
{
    // <addStyleSheet>
    if (isElement(nextElement, WSConstants.ELEM_ADD_STYLE_SHEET))
    {
        AddStyleSheet addStyleSheet = new AddStyleSheetImpl();

        // Parse the element
        TestUtils.parseAddStyleSheet(
            nextElement,
            addStyleSheet,
            WSConstants.DEFAULT_REPORT_XSL);

        // Set add style sheet
        analyzerConfig.setAddStyleSheet(addStyleSheet);
    }

    else
    {
        // Throw exception
        throw new IllegalArgumentException(
            getMessage(
                "config06",
                nextElement.getLocalName(),
                "Invalid analyzer config element:"));
    }

    // Get next element
    nextElement = XMLUtils.getNextSibling(nextElement);
}
}

/**

```

```

* Parse wsdl reference element.
*/
private void parseWsdReference(
    AnalyzerConfig analyzerConfig,
    Element element)
    throws WSIException
{
    // Create UDDI reference
    WSDLReference wsdlReference = new WSDLReferenceImpl();

    // Set WSDL reference
    analyzerConfig.setWSDLReference(wsdlReference);

    // Get first child element
    Element nextElement = XMLUtils.getFirstChild(element);

    // Process each child element
    while (nextElement != null)
    {
        // <wsdlURI>
        if (isElement(nextElement, WSConstants.ELEM_WSDL_URI))
        {
            // Set WSDL location
            wsdlReference.setWSDLLocation(XMLUtils.getText(nextElement));
        }

        // <serviceLocation>
        else if (isElement(nextElement, WSConstants.ELEM_SERVICE_LOCATION))
        {
            // Set service location
            wsdlReference.setServiceLocation(XMLUtils.getText(nextElement));
        }

        // <wsdlElement>
        else if (isElement(nextElement, WSConstants.ELEM_WSDL_ELEMENT))
        {
            // Set WSDL element
            wsdlReference.setWSDLElement(parseWsdElement(nextElement));
        }

        else
        {
            // Throw exception
            throw new IllegalArgumentException(
                getMessage(
                    "config06",
                    nextElement.getLocalName(),
                    "Invalid analyzer config element:"));
        }
    }
}

```

```

    }

    // Get next element
    nextElement = XMLUtils.getNextSibling(nextElement);
}

// If WSDL element or WSL URI not specified, then throw exception
if ((wsdlReference.getWSDLElement() == null)
    || (wsdlReference.getWSDLLocation() == null))
{
    throw new IllegalArgumentException(
        getMessage(
            "config07",
            "Both the <wsdlElement> and <wsdlURI> elements must be specified."));
}

// If type is port or operation, then parent element name must be specified
if (((wsdlReference
    .getWSDLElement()
    .getType()
    .equalsIgnoreCase(WSDLValidator.TYPE_DESCRIPTION_PORT))
    || (wsdlReference
    .getWSDLElement()
    .getType()
    .equalsIgnoreCase(WSDLValidator.TYPE_DESCRIPTION_OPERATION)))
    && (wsdlReference.getWSDLElement().getParentElementName() == null))
{
    throw new IllegalArgumentException(
        getMessage(
            "config09",
            "The parentElementName attribute must be specified with a WSDL type of "
            + WSDLValidator.TYPE_DESCRIPTION_PORT
            + " or "
            + WSDLValidator.TYPE_DESCRIPTION_OPERATION
            + ".");
}
}

/**
 * Parse uddi reference.
 */
private void parseUddiReference(
    AnalyzerConfig analyzerConfig,
    Element element)
    throws WSIException
{
    // Create UDDI reference
    UDDIReference uddiReference = new UDDIReferenceImpl();

```

```

// Set UDDI reference
analyzerConfig.setUDDIReference(uddiReference);

// Get first child element
Element nextElement = XMLUtils.getFirstChild(element);

// Process each child element
while (nextElement != null)
{
    // <inquiryURL>
    if (isElement(nextElement, WSIConstants.ELEM_INQUIRY_URL))
    {
        // Set inquiry URL
        uddiReference.setInquiryURL(XMLUtils.getText(nextElement));
    }

    // <uddiKey>
    else if (isElement(nextElement, WSIConstants.ELEM_UDDI_KEY))
    {
        // Set UDDI key and key type
        uddiReference.setKey(XMLUtils.getText(nextElement));
        uddiReference.setKeyType(
            XMLUtils.getAttributeValue(nextElement, WSIConstants.ATTR_TYPE));
    }

    // <wsdlElement>
    else if (isElement(nextElement, WSIConstants.ELEM_WSDL_ELEMENT))
    {
        // Set WSDL element
        uddiReference.setWSDLElement(parseWsdElement(nextElement));
    }

    // <serviceLocation>
    else if (isElement(nextElement, WSIConstants.ELEM_SERVICE_LOCATION))
    {
        // Set service location
        uddiReference.setServiceLocation(XMLUtils.getText(nextElement));
    }

    /* REMOVE:
    // <wsdlElement>
    else if (isElement(nextElement, WSIConstants.ELEM_WSDL_ELEMENT)) {
        // Set service location
        parseWsdElement(analyzerConfig, nextElement);
    }
    */
}

```

```

else
{
    // Throw exception
    throw new IllegalArgumentException(
        getMessage(
            "config06",
            nextElement.getLocalName(),
            "Invalid analyzer config element:"));
}

// Get next element
nextElement = XMLUtils.getNextSibling(nextElement);
}
}

/**
 * Parse WSDL element.
 */
private WSDLElement parseWsdIElement(Element element) throws WSIException
{
    WSDLElement wsdlElement = new WSDLElementImpl();

    // Set type, namespace, parent element name and name
    wsdlElement.setType(
        XMLUtils.getAttributeValue(element, WSConstants.ATTR_TYPE));
    wsdlElement.setNamespace(
        XMLUtils.getAttributeValue(element, WSConstants.ATTR_NAMESPACE));
    wsdlElement.setParentElementName(
        XMLUtils.getAttributeValue(
            element,
            WSConstants.ATTR_PARENT_ELEMENT_NAME));

    String wsdlElementName = XMLUtils.getText(element);
    if (wsdlElementName.equals(""))
    {
        // Throw exception
        throw new IllegalArgumentException(
            getMessage("config19", "The WSDL element name must be specified.));
    }
    wsdlElement.setName(wsdlElementName);

    return wsdlElement;
}

/**
 * Determine if this element matches specified local name in the analyzer config namespace.
 */
private boolean isElement(Element element, String localName)

```

```

{
    return isElement(
        element,
        getValidWSIAnalyzerConfigNamespaces(),
        localName);
}

static public List getValidWSIAnalyzerConfigNamespaces()
{
    ArrayList list = new ArrayList();
    list.add(WSIConstants.NS_URI_WSI_ANALYZER_CONFIG_2003);
    list.add(WSIConstants.NS_URI_WSI_ANALYZER_CONFIG);
    return list;
}

/**
 * Determine if this element matches specified local name in the analyzer config namespace.
 */
private boolean isElement(
    Element element,
    List namespaces,
    String localName)
{
    return XMLUtils.isElement(element, namespaces, localName);
}

/**
 * Get message from resource bundle.
 */
private String getMessage(String messageID, String defaultMessage)
{
    return getMessage(messageID, null, defaultMessage);
}

/**
 * Get message from resource bundle.
 */
private String getMessage(
    String messageID,
    String messageData,
    String defaultMessage)
{
    String message = defaultMessage;
    if (messageList != null)
        message = messageList.getMessage(messageID, messageData, defaultMessage);
    else
        message += " " + messageData + ".";
}

```

```

    return message;
}
}
/*****
*
* Copyright (c) 2002-2005 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* IBM - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.analyzer.config.impl;

import java.io.PrintWriter;
import java.io.StringWriter;

import org.eclipse.wst.wsi.internal.core.WSConstants;
import org.eclipse.wst.wsi.internal.core.analyzer.config.UDDIReference;
import org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLElement;

/**
 * The iimplementation for a reference to a discovery artifact.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class UDDIReferenceImpl implements UDDIReference
{
    /**
     * UDDI key type.
     */
    protected String keyType = null;

    /**
     * UDDI key.
     */
    protected String key = null;

    /**
     * UDDI inquiry URL.
     */
    protected String inquiryURL = null;

    /**

```



```

    * WSDL element.
    */
protected WSDLElement wsdlElement = null;

/**
 * Service location.
 */
protected String serviceLocation = null;

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.UDDIRreference#getKeyType()
 */
public String getKeyType()
{
    return this.keyType;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.UDDIRreference#setKeyType(String)
 */
public void setKeyType(String keyType)
{
    if (keyType.equals(BINDING_KEY) || keyType.equals(TMODEL_KEY))
        this.keyType = keyType;
    else
        throw new IllegalArgumentException(
            "Invalid UDDI key type: [" + keyType + "].");
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.UDDIRreference#getKey()
 */
public String getKey()
{
    return this.key;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.UDDIRreference#setKey(String)
 */
public void setKey(String key)
{
    this.key = key;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.UDDIRreference#getInquiryURL()
 */

```

```

public String getInquiryURL()
{
    return this.inquiryURL;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.UDDIReference#setInquiryURL(String)
 */
public void setInquiryURL(String inquiryURL)
{
    this.inquiryURL = inquiryURL;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference#getWSDLElement()
 */
public WSDLElement getWSDLElement()
{
    return this.wsdElement;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference#setWSDLElement(WSDLElement)
 */
public void setWSDLElement(WSDLElement wsdElement)
{
    this.wsdElement = wsdElement;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference#getServiceLocation()
 */
public String getServiceLocation()
{
    return this.serviceLocation;
}

/**
 * @see org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLReference#setServiceLocation()
 */
public void setServiceLocation(String serviceLocation)
{
    this.serviceLocation = serviceLocation;
}

/**
 * Get string representation of this object.
 */

```

```

public String toString()
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    pw.println(" UDDI Reference: ");
    pw.println(" UDDI Key: ");
    pw.println(" type ..... " + this.keyType);
    pw.println(" key ..... " + this.key);
    pw.println(" inquiryURL ..... " + this.inquiryURL);
    if (this.serviceLocation != null)
        pw.println(" serviceLocation ..... " + this.serviceLocation);
    if (this.wsdlElement != null)
        pw.print(this.wsdlElement.toString());

    return sw.toString();
}

/**
 * @see org.eclipse.wst.wsi.internal.core.document.DocumentElement#toXMLString(String)
 */
public String toXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

    // Element
    pw.println(" <" + nsName + ELEM_NAME + ">");
    pw.print(" <" + nsName + WSIConstants.ELEM_UDDI_KEY + " ");
    pw.print(WSIConstants.ATTR_TYPE + "=\"" + getKeyType() + "\">");
    pw.print(getKey());
    pw.println("</" + nsName + WSIConstants.ELEM_UDDI_KEY + ">");
    pw.print(" <" + nsName + WSIConstants.ELEM_INQUIRY_URL + ">");
    pw.print(getInquiryURL());
    pw.println("</" + nsName + WSIConstants.ELEM_INQUIRY_URL + ">");

    if (this.wsdlElement != null)
        pw.print(getWSDLElement().toXMLString(nsName));

    if (this.serviceLocation != null)
    {
        pw.print(" <" + nsName + WSIConstants.ELEM_SERVICE_LOCATION + ">");
        pw.print(getServiceLocation());
        pw.println(

```

```

        "    </" + nsName + WSIConstants.ELEM_SERVICE_LOCATION + ">");
    }

    pw.println("    </" + nsName + ELEM_NAME + ">");

    return sw.toString();
}

}

/*****
* Copyright (c) 2002-2005 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* IBM - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.analyzer.config.impl;

import java.io.PrintWriter;
import java.io.StringWriter;

import javax.xml.namespace.QName;

import org.eclipse.wst.wsi.internal.core.WSIConstants;
import org.eclipse.wst.wsi.internal.core.analyzer.config.WSDLElement;
import org.eclipse.wst.wsi.internal.core.profile.validator.WSDLValidator;

/**
 * The implementation for WSDL definitions.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class WSDLElementImpl implements WSDLElement
{
    protected String type;
    protected String namespace;
    protected String name;
    protected String parentElementName;

    /**
     * @see #setType
     */
    public String getType()
    {

```

```

    return this.type;
}

/**
 * @see #getType
 */
public void setType(String type)
{
    this.type = type;
}

/**
 * @see #setNamespace
 */
public String getNamespace()
{
    return this.namespace;
}

/**
 * @see #getNamespace
 */
public void setNamespace(String namespace)
{
    this.namespace = namespace;
}

/**
 * @see #setName
 */
public String getName()
{
    return this.name;
}

/**
 * @see #getName
 */
public void setName(String name)
{
    this.name = name;
}

public QName getQName()
{
    return new QName(this.namespace, this.name);
}

```

```

/**
 * Get WSDL parent element name.
 * @see #setParentElementName
 */
public String getParentElementName()
{
    return this.parentElementName;
}

/**
 * Set WSDL parent element name.
 * @see #getParentElementName
 */
public void setParentElementName(String parentElementName)
{
    this.parentElementName = parentElementName;
}

/**
 * @see org.eclipse.wst.wsi.test.analyzer.config.WSDLElement#getParentElementQName()
 */
public QName getParentElementQName()
{
    return new QName(this.namespace, this.parentElementName);
}

/**
 * Is port element.
 */
public boolean isPort()
{
    return type.equals(WSDLValidator.TYPE_DESCRIPTION_PORT);
}

/**
 * Is binding element.
 */
public boolean isBinding()
{
    return type.equals(WSDLValidator.TYPE_DESCRIPTION_BINDING);
}

/**
 * Is portType element.
 */
public boolean isPortType()
{

```

```

    return type.equals(WSDLValidator.TYPE_DESCRIPTION_PORTTYPE);
}

/**
 * Is operation element.
 */
public boolean isOperation()
{
    return type.equals(WSDLValidator.TYPE_DESCRIPTION_OPERATION);
}

/**
 * Is message element.
 */
public boolean isMessage()
{
    return type.equals(WSDLValidator.TYPE_DESCRIPTION_MESSAGE);
}

/**
 * Get string representation of this object.
 */
public String toString()
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    pw.println(" WSDL Element: ");
    pw.println("   type ..... " + this.type);
    pw.println("   namespace ..... " + this.namespace);
    pw.println("   name ..... " + this.name);

    if (this.parentElementName != null)
        pw.println("   parentElementName ..... " + this.parentElementName);

    return sw.toString();
}

/**
 * Get representation of this object as an XML string.
 */
public String toXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))

```

```

    nsName += ":";

    // Config options
    pw.print("    <" + nsName + ELEM_NAME + " ");
    pw.print(WSIConstants.ATTR_TYPE + "=\"" + getType() + "\" ");
    pw.print(WSIConstants.ATTR_NAMESPACE + "=\"" + getNamespace() + "\" ");
    if (this.parentElementName != null)
        pw.print(
            WSIConstants.ATTR_PARENT_ELEMENT_NAME
            + "=\""
            + getParentElementName()
            + "\"");
    pw.print(">");
    pw.print(getName());
    pw.println("</" + nsName + ELEM_NAME + ">");

    return sw.toString();
}
}
/*****
* Copyright (c) 2002-2003 IBM Corporation, Parasoft and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* IBM - Initial API and implementation
* Parasoft - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.analyzer.config.impl;

import java.io.PrintWriter;
import java.io.StringWriter;

import org.eclipse.wst.wsi.internal.core.WSIConstants;
import org.eclipse.wst.wsi.internal.core.analyzer.config.AssertionResultType;
import org.eclipse.wst.wsi.internal.core.analyzer.config.AssertionResultsOption;

/**
 * This class contains the assertion results option definition.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 */
public class AssertionResultsOptionImpl implements AssertionResultsOption
{
    /**

```



```

* Assertion result type.
*/
protected AssertionResultType resultType = AssertionResultType.ALL;

/**
* Show message entry indicator.
*/
protected boolean showMessageEntry = true;

/**
* Show assertion description indicator.
*/
protected boolean showAssertionDescription = false;

/**
* Show failure message indicator.
*/
protected boolean showFailureMessage = true;

/**
* Show failure detail indicator.
*/
protected boolean showFailureDetail = true;

/**
* Get assertion result type.
* @see #setAssertionResultType
*/
public AssertionResultType getAssertionResultType()
{
    return resultType;
}

/**
* Set assertion result type.
* @see #getAssertionResultType
*/
public void setAssertionResultType(AssertionResultType resultType)
{
    this.resultType = resultType;
}

/**
* Get show message entry indicator.
* @see #setShowMessageEntry
*/
public boolean getShowMessageEntry()
{

```

```

    return this.showMessageEntry;
}

/**
 * Set show message entry indicator.
 * @see #getShowMessageEntry
 */
public void setShowMessageEntry(boolean showMessageEntry)
{
    this.showMessageEntry = showMessageEntry;
}

/**
 * Get show assertion description indicator.
 * @see #setShowAssertionDescription
 */
public boolean getShowAssertionDescription()
{
    return this.showAssertionDescription;
}

/**
 * Set show assertion description indicator.
 * @see #getShowAssertionDescription
 */
public void setShowAssertionDescription(boolean showAssertionDescription)
{
    this.showAssertionDescription = showAssertionDescription;
}

/**
 * Get show failure message indicator.
 * @see #setShowFailureMessage
 */
public boolean getShowFailureMessage()
{
    return this.showFailureMessage;
}

/**
 * Set show failure message indicator.
 * @see #getShowFailureMessage
 */
public void setShowFailureMessage(boolean showFailureMessage)
{
    this.showFailureMessage = showFailureMessage;
}

```

```

/**
 * Get show failure detail indicator.
 * @see #setShowFailureDetail
 */
public boolean getShowFailureDetail()
{
    return this.showFailureDetail;
}

/**
 * Set show failure detail indicator.
 * @see #getShowFailureDetail
 */
public void setShowFailureDetail(boolean showFailureDetail)
{
    this.showFailureDetail = showFailureDetail;
}

/**
 * Get string representation of this object.
 */
public String toString()
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    pw.println(" Assertion Results:");
    pw.println("  type ..... " + this.resultType);
    pw.println("  messageEntry ..... " + this.showMessageEntry);
    pw.println(
        "  assertionDescription ..... " + this.showAssertionDescription);
    pw.println("  failureMessage ..... " + this.showFailureMessage);
    pw.println("  failureDetail ..... " + this.showFailureDetail);

    return sw.toString();
}

/**
 * Get representation of this object as an XML string.
 */
public String toXMLString(String namespaceName)
{
    StringWriter sw = new StringWriter();
    PrintWriter pw = new PrintWriter(sw);

    String nsName = namespaceName;
    if ((!nsName.equals("") && (!nsName.endsWith(":"))))
        nsName += ":";

```

```

// Config options
pw.print("  <" + nsName + WSIConstants.ELEM_ASSERTION_RESULTS + " ");
pw.print(WSIConstants.ATTR_TYPE + "=\"" + getAssertionResultType() + "\" ");
pw.print(
  WSIConstants.ATTR_MESSAGE_ENTRY + "=\"" + getShowMessageEntry() + "\" ");
pw.print(
  WSIConstants.ATTR_ASSERTION_DESCRIPTION
  + "=\""
  + getShowAssertionDescription()
  + "\" ");
pw.print(
  WSIConstants.ATTR_FAILURE_MESSAGE
  + "=\""
  + getShowFailureMessage()
  + "\" ");
pw.println(
  WSIConstants.ATTR_FAILURE_DETAIL
  + "=\""
  + getShowFailureDetail()
  + "\"/>");
// REMOVE:
//pw.println(WSIConstants.ATTR_WARNING_MESSAGE + "=\"" + getShowWarningMessage() + "\"/>");

return sw.toString();
}
}
/*****
* Copyright (c) 2002-2005 IBM Corporation and others.
* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
* IBM - Initial API and implementation
*****/
package org.eclipse.wst.wsi.internal.core.profile.validator.impl;

import java.util.HashMap;
import java.util.Hashtable;
import java.util.Iterator;
import java.util.TreeMap;
import java.util.Vector;

import org.eclipse.wst.wsi.internal.core.WSIException;
import org.eclipse.wst.wsi.internal.core.analyzer.AnalyzerContext;
import org.eclipse.wst.wsi.internal.core.profile.ProfileArtifact;

```

```

import org.eclipse.wst.wsi.internal.core.profile.TestAssertion;
import org.eclipse.wst.wsi.internal.core.profile.validator.BaseValidator;
import org.eclipse.wst.wsi.internal.core.profile.validator.EntryContext;
import org.eclipse.wst.wsi.internal.core.profile.validator.EnvelopeValidator;
import org.eclipse.wst.wsi.internal.core.report.AssertionResult;
import org.eclipse.wst.wsi.internal.core.report.Entry;
import org.eclipse.wst.wsi.internal.core.report.FailureDetail;
import org.eclipse.wst.wsi.internal.core.report.PrereqFailedList;
import org.eclipse.wst.wsi.internal.core.report.ReportArtifact;
import org.eclipse.wst.wsi.internal.core.report.Reporter;
import org.eclipse.wst.wsi.internal.core.report.impl.PrereqFailedListImpl;
import org.eclipse.wst.wsi.internal.core.util.EntryType;
import org.eclipse.wst.wsi.internal.core.xml.XMLDocumentCacheUser;
import org.eclipse.wst.wsi.internal.core.xml.dom.ElementLocation;

/**
 * The WSDL validator will verify that the WSDL and associated XML schema definitions
 * are in conformance with the profile.
 *
 * @version 1.0.1
 * @author Peter Brittenham (peterbr@us.ibm.com)
 * @author Graham Turrell (gturrell@uk.ibm.com)
 */
public abstract class BaseValidatorImpl
    extends XMLDocumentCacheUser
    implements BaseValidator
{
    /**
     * A hashtable that maps assertion results to their priorities, 0 is lowest
     */
    private static final Hashtable resultPriority = new Hashtable(6);
    static {
        resultPriority.put(AssertionResult.RESULT_PASSED, new Integer(0));
        resultPriority.put(AssertionResult.RESULT_NOT_APPLICABLE, new Integer(1));
        resultPriority.put(AssertionResult.RESULT_MISSING_INPUT, new Integer(2));
        resultPriority.put(AssertionResult.RESULT_WARNING, new Integer(3));
        resultPriority.put(AssertionResult.RESULT_PREREQ_FAILED, new Integer(4));
        resultPriority.put(AssertionResult.RESULT_FAILED, new Integer(5));
    }

    /**
     * The highest priority value being passed when processing pre-requisites
     */
    private static final int MAX_VALID_PRIORITY = 1;

    /**
     * Analyzer context.

```

```

*/
public AnalyzerContext analyzerContext;

/**
 * Profile artifact.
 */
protected ProfileArtifact profileArtifact;

/**
 * Reporter.
 */
protected Reporter reporter;

/**
 * Entry.
 */
// protected Entry entry;

/**
 * Report artifact.
 */
protected ReportArtifact reportArtifact;

/**
 * Verbose option.
 */
public boolean verboseOption = false;

/**
 * Test assertion processed count.
 */
protected int assertionCount = 0;

/**
 * Constructor.
 */
public BaseValidatorImpl()
{
}

/**
 * Initialize validation test procedure.
 * @param analyzerContext the analyzerContext.
 * @param profileArtifact the profile artifact.
 * @param reportArtifact the report artifact.
 * @param reporter a Reporter object.
 * @throws WSIException if validator could not be initialized.
 */

```

```

public void init(
    AnalyzerContext analyzerContext,
    ProfileArtifact profileArtifact,
    ReportArtifact reportArtifact,
    Reporter reporter)
    throws WSIException
{
    // Save input references
    this.analyzerContext = analyzerContext;
    this.profileArtifact = profileArtifact;
    this.reportArtifact = reportArtifact;
    this.reporter = reporter;

    // Get verbose option
    verboseOption =
        reporter
            .getReport()
            .getReportContext()
            .getAnalyzer()
            .getAnalyzerConfig()
            .getVerboseOption();
}

/**
 * Process all of the test assertions for one entry.
 * @param classPrefix a class prefix.
 * @param entryContext an entry context.
 * @throws WSIException if serious problems occur while processing
 *       all of the test assertions for an entry.
 */
protected void processAssertions(
    String classPrefix,
    EntryContext entryContext)
    throws WSIException
{
    long startTime = 0;

    HashMap processList = new HashMap();
    TestAssertion testAssertion = null;
    AssertionProcess assertionProcess;
    AssertionResult assertionResult;

    TreeMap preReqResults;
    PrereqFailedList prereqFailedList;
    String preReqId;

    Class[] paramTypes = new Class[1];
    // If this is an instance of MessageValidator or EnvelopeValidator

```

```

// then use BaseMessageValidator as a param type of assertions constructor
paramTypes[0] = this instanceof BaseMessageValidator ?
    BaseMessageValidator.class : this.getClass();

Object[] params = new Object[1];
params[0] = this;

// Get entry from context
Entry entry = entryContext.getEntry();

// Add entry to artifact
this.reportArtifact.addEntry(entry);

// Add entry to report
if (this instanceof EnvelopeValidator)
    this.reporter.setCurrentEnvelopeEntry(entry);
else this.reporter.setCurrentEntry(entry);

try
{
    // Go through the list of test assertions for the artifact
    Iterator iterator = profileArtifact.getTestAssertionList().iterator();
    while (iterator.hasNext())
    {
        // Get next test assertion
        testAssertion = (TestAssertion) iterator.next();

        // Reset variables
        assertionResult = null;

        // If the test assertion is enabled, then continue
        //   if ((testAssertion.isEnabled()) &&
        //       testAssertion.getEntryTypeName().equals(targetContext.getEntry().getEntryType().getTypeName())) {

        if (testAssertion.isEnabled()
            && isPrimaryEntryTypeMatch(testAssertion, entryContext))
        {
            try
            {
                // Add 1 to assertion processed count
                assertionCount++;

                // If the assertion process hasn't been created yet, then create it
                if ((assertionProcess =
                    (AssertionProcess) processList.get(testAssertion.getId()))
                    == null)
                {

```



```

// Create a new assertion process
Class assertionClass =
    Class.forName(classPrefix + testAssertion.getId());

assertionProcess =
    (AssertionProcess) assertionClass.getConstructor(
        paramTypes).newInstance(
        params);

// Add it to the list
processList.put(testAssertion.getId(), assertionProcess);
}

// Check whether entry is null
if (entry.getEntryDetail() == null)
{
    assertionResult =
        createAssertionResult(
            testAssertion,
            AssertionResult.RESULT_MISSING_INPUT,
            (String) null);
}

// Check to see if the test assertion should be run
//if (isNotApplicable(testAssertion, entryContext)) {
else if (isNotApplicable(testAssertion))
{
    assertionResult =
        createAssertionResult(
            testAssertion,
            AssertionResult.RESULT_NOT_APPLICABLE,
            (String) null);
}
else
{
    // Processing all the assertion pre-requisites

    preReqResults = null;
    prereqFailedList = null;
    // Get list of pre-reqs for specified assertion
    Iterator i = testAssertion.getPrereqIdList().iterator();
    while (i.hasNext())
    {
        if (preReqResults == null)
            preReqResults = new TreeMap();
        // Get next id
        preReqId = (String) i.next();
        // Get the prereq result

```

```

AssertionResult preReqResult = reporter.getAssertionResult(preReqId);

// Adding a result priority value to preReqResults
preReqResults.put(
    resultPriority.get(preReqResult.getResult()),
    preReqResult.getResult());

// If the prereq failed, then add it to the list
if (((Integer)resultPriority.get(preReqResult.getResult())).intValue()
    > MAX_VALID_PRIORITY)
{
    // Adding failed prereq ID to the list
    if (prereqFailedList == null)
        prereqFailedList = new PrereqFailedListImpl();
    prereqFailedList.addTestAssertionID(preReqId);
}
}

if (prereqFailedList != null) {
    // Getting the highest pre-requisites' result
    Integer maxRes = (Integer)preReqResults.lastKey();
    String resString = (String)preReqResults.get(maxRes);
    if (resString.equals(AssertionResult.RESULT_FAILED)
        ||resString.equals(AssertionResult.RESULT_WARNING)) {
        resString = AssertionResult.RESULT_PREREQ_FAILED;
    }
    // Create assertion result based on pre-requisites which are not passed
    assertionResult = createAssertionResult(testAssertion, resString, prereqFailedList);
}

// Pre-requisites are passed, validate current assertion
else {

    // Reset test assertion
    assertionProcess.reset();

    // VERBOSE
    if (verboseOption)
    {
        System.err.println(
            " Processing "
            + testAssertion.getId()
            + " for entry reference ID ["
            + entry.getReferenceID()
            + "] ...");
        startTime = System.currentTimeMillis();
    }
}

```

```

// Validate the target
assertionResult =
    assertionProcess.validate(testAssertion, entryContext);

// VERBOSE
if (verboseOption)
{
    System.err.println(
        " Elapsed time: "
        + (System.currentTimeMillis() - startTime)
        + "ms");
    }
}

// Add result to the report
reporter.addAssertionResult(assertionResult);
}

catch (ClassNotFoundException cnfe)
{
    // DEBUG:
    if (testAssertion != null)
    {
        reporter
            .getReport()
            .getReportContext()
            .getAnalyzer()
            .printMessage(
                "WARNING: "
                + testAssertion.getId()
                + " is not supported currently.");
        }
    }
}

catch (Exception e)
{
    System.err.println("EXCEPTION: " + e.getMessage());
    if (verboseOption)
        e.printStackTrace();

    if (e instanceof WSIException)
        throw (WSIException) e;
    else
        throw new WSIException(e.getMessage(), e);
}

```

```

    }

    finally
    {
        // Indicate that we are done with this assertion target
        this.reporter.endCurrentEntry();
    }
}

/**
 * Determine if the test assertion should be processed for the current entry.
 * @param testAssertion a test assertion.
 * @param entryContext the entry context.
 * @return true if the test assertion should be processed for the current entry.
 */
protected abstract boolean isPrimaryEntryTypeMatch(
    TestAssertion testAssertion,
    EntryContext entryContext);

/**
 * Determine if the test assertion should be processed for the current entry.
 * @param testAssertion a test assertion.
 * @param entry an Entry object
 * @return true if the test assertion should be processed for the current entry.
 */
protected boolean isPrimaryEntryTypeMatch(
    TestAssertion testAssertion,
    Entry entry)
{
    boolean match = false;

    // If the test assertion entry type matches the target context entry type, then continue
    if (testAssertion
        .getEntryTypeName()
        .equals(entry.getEntryType().getTypeName()))
    {
        match = true;
    }

    return match;
}

/**
 * Determine if the test assertion is not applicable.
 * @param testAssertion a test assertion.
 * @return true if the test assertion is not applicable.
 */
protected abstract boolean isNotApplicable(TestAssertion testAssertion);

```

```

/* (non-Javadoc)
 * @see org.wsi.test.profile.validator.BaseValidator#cleanup()
 */
public void cleanup() throws WSIException
{
    // If no assertions were processed, then set all missingInput
    if (assertionCount == 0)
        setAllMissingInput();
}

/**
 * Create assertion result.
 * @param testAssertion a test assertion.
 * @param result      a String object.
 * @param failureDetail a FailureDetail object.
 * @return newly created test result.
 */
public AssertionResult createAssertionResult(
    TestAssertion testAssertion,
    String result,
    FailureDetail failureDetail)
{
    Vector failureDetailList = null;

    // Create failure detail list
    if (failureDetail != null)
    {
        failureDetailList = new Vector();
        failureDetailList.add(failureDetail);
    }

    return createAssertionResult(testAssertion, result, failureDetailList);
}

/**
 * Create assertion result.
 * @param testAssertion a test assertion.
 * @param result      a String object.
 * @param failureDetailMessage a failure detail message.
 * @return newly created test result.
 */
public AssertionResult createAssertionResult(
    TestAssertion testAssertion,
    String result,
    String failureDetailMessage)
{
    return createAssertionResult(

```

```

    testAssertion,
    result,
    failureDetailMessage,
    null);
}

/**
 * Create assertion result.
 * @param testAssertion    a test assertion.
 * @param result          a String object.
 * @param failureDetailMessage a failure detail message.
 * @param elementLocation    element location.
 * @return newly created test result.
 */
public AssertionResult createAssertionResult(
    TestAssertion testAssertion,
    String result,
    String failureDetailMessage,
    ElementLocation elementLocation)
{
    // Create failure detail list
    Vector failureDetailList = null;
    if (failureDetailMessage != null)
    {
        failureDetailList = new Vector();
        FailureDetail failureDetail = reporter.createFailureDetail();
        failureDetail.setFailureMessage(failureDetailMessage);
        failureDetail.setElementLocation(elementLocation);
        failureDetailList.add(failureDetail);
    }

    return createAssertionResult(testAssertion, result, failureDetailList);
}

/**
 * Create assertion result.
 * @param testAssertion    a test assertion.
 * @param result          a String object.
 * @param failureDetailList a failure detail list.
 * @return newly created test result.
 */
public AssertionResult createAssertionResult(
    TestAssertion testAssertion,
    String result,
    Vector failureDetailList)
{
    // Create assertion result
    AssertionResult assertionResult = reporter.createAssertionResult();

```

```

// Set values in assertion result
assertionResult.setAssertion(testAssertion);
assertionResult.setResult(result);
assertionResult.setEntry(reporter.getReport().getCurrentEntry());

// Set failure detail list
assertionResult.setFailureDetailList(failureDetailList);

return assertionResult;
}

/**
 * Create assertion result.
 * @param testAssertion a test assertion.
 * @param result a String object.
 * @param prereqFailedList a list failed pre-requisite assertions.
 * @return newly created test result.
 */
public AssertionResult createAssertionResult(
    TestAssertion testAssertion,
    String result,
    PrereqFailedList prereqFailedList)
{
    // Create assertion result
    AssertionResult assertionResult = reporter.createAssertionResult();

    // Set values in assertion result
    assertionResult.setAssertion(testAssertion);
    assertionResult.setResult(result);
    assertionResult.setEntry(reporter.getReport().getCurrentEntry());
    assertionResult.setPrereqFailedList(prereqFailedList);

    return assertionResult;
}

/**
 * Add assertion result to report.
 * @param assertionId assertion id.
 * @param result assertion result.
 * @throws WSIException if the assertion result cannot be added to the report.
 */
protected void addAssertionResult(String assertionId, String result)
    throws WSIException
{
    // Create test assertion result
    AssertionResult assertionResult = reporter.createAssertionResult();

```

```

// Set assertion, result and target
assertionResult.setAssertion(profileArtifact.getTestAssertion(assertionId));
assertionResult.setResult(result);
assertionResult.setEntry(reporter.getReport().getCurrentEntry());

// Add it to the report
reporter.addAssertionResult(assertionResult);
}

/**
 * Add assertion result to report with an error detail message.
 * @param assertionId    assertion id.
 * @param result         assertion result.
 * @param failureDetailMessage an error detail message.
 * @throws WSIException if the assertion result cannot be added to the report.
 */
protected void addAssertionResult(
    String assertionId,
    String result,
    String failureDetailMessage)
    throws WSIException
{
    // Convert message to vector
    Vector failureDetailList = null;
    if (failureDetailMessage != null)
    {
        failureDetailList = new Vector();
        FailureDetail failureDetail = reporter.createFailureDetail();
        failureDetailList.add(failureDetail);
    }

    // Add assertion result
    addAssertionResult(assertionId, result, failureDetailList);
}

/**
 * Add assertion result to report.
 * @param assertionId    assertion id.
 * @param result         assertion result.
 * @param failureDetailList a list of error detail messages.
 * @throws WSIException if the assertion result cannot be added to the report.
 */
protected void addAssertionResult(
    String assertionId,
    String result,
    Vector failureDetailList)
    throws WSIException
{

```



```

// Create test assertion result
AssertionResult assertionResult = reporter.createAssertionResult();

// Set assertion, result and target
assertionResult.setAssertion(profileArtifact.getTestAssertion(assertionId));
assertionResult.setResult(result);
assertionResult.setEntry(reporter.getReport().getCurrentEntry());
assertionResult.setFailureDetailList(failureDetailList);

// Add it to the report
reporter.addAssertionResult(assertionResult);
}

/**
 * Add missingInput assertion result to report.
 * @param testAssertion a test assertion.
 * @throws WSIException if there is any problem adding missingInput
 * assertion result to report.
 */
protected void addMissingInputResult(TestAssertion testAssertion)
    throws WSIException
{
// Create test assertion result
AssertionResult assertionResult = reporter.createAssertionResult();

// Set assertion, result and target
assertionResult.setAssertion(testAssertion);
assertionResult.setResult(AssertionResult.RESULT_MISSING_INPUT);
assertionResult.setEntry(reporter.getReport().getCurrentEntry());

// Add it to the report
reporter.addAssertionResult(assertionResult);
}

/* (non-Javadoc)
 * @see org.wsi.test.profile.validator.BaseValidator#setAllMissingInput()
 */
public void setAllMissingInput() throws WSIException
{
// If profile artifact is set
if (profileArtifact != null)
{
    TestAssertion testAssertion;

// Create entry
Entry entry = this.reporter.getReport().createEntry();
entry.setArtifactName(this.reportArtifact.getType().getTypeName());

```

```

// Add entry to artifact
this.reportArtifact.addEntry(entry);

// Add entry to report
this.reporter.setCurrentEntry(entry);

// Go through the list of test assertions for the artifact
Iterator iterator = profileArtifact.getTestAssertionList().iterator();
while (iterator.hasNext())
{
    // Get next test assertion
    testAssertion = (TestAssertion) iterator.next();

    // Add missingInput result
    if (testAssertion.isEnabled())
        addMissingInputResult(testAssertion);
}

// Indicate that we are done with this assertion target
this.reporter.endCurrentEntry();
}
}

/**
 * Set all results for an entry type to missingInput.
 * @param entryType an EntryType object.
 * @throws WSIException if there is any problem while processing.
 */
protected void setMissingInput(EntryType entryType) throws WSIException
{
    TestAssertion testAssertion;

    // Create entry
    Entry entry = this.reporter.getReport().createEntry();
    entry.setEntryType(entryType);
    entry.setReferenceID("[ " + entryType.getTypeName() + " ]");

    // Add entry to artifact
    this.reportArtifact.addEntry(entry);

    // Add entry to report
    this.reporter.setCurrentEntry(entry);

    //try {
    // Go through the list of test assertions for the artifact
    Iterator iterator = profileArtifact.getTestAssertionList().iterator();
    while (iterator.hasNext())
    {

```

```

// Get next test assertion
testAssertion = (TestAssertion) iterator.next();
if (testAssertion.isEnabled()
    && isPrimaryEntryTypeMatch(testAssertion, entry))
{
    addMissingInputResult(testAssertion);
}
}

// Indicate that we are done with this entry
this.reporter.endCurrentEntry();
}
}
/*****
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*****/
package org.eclipse.wst.wsi.internal.core.profile.validator.impl.envelope;

import org.eclipse.wst.wsi.internal.core.profile.TestAssertion;
import org.eclipse.wst.wsi.internal.core.profile.validator.EntryContext;
import org.eclipse.wst.wsi.internal.core.profile.validator.EnvelopeValidator;
import org.eclipse.wst.wsi.internal.core.profile.validator.MessageValidator;
import org.eclipse.wst.wsi.internal.core.profile.validator.impl.BaseMessageValidator;

/**
 * @version 1.0
 */
public class EnvelopeValidatorImpl
    extends BaseMessageValidator
    implements EnvelopeValidator
{
    /**
     * Get the artifact type that this validator applies to.
     * @return the artifact type (a String)
     */
    public String getArtifactType() {
        return TYPE_ENVELOPE;
    }
}
/**

```

```

* Get the collection of entry types that this validator applies to.
* @return an array of entry types (Strings)
*/
public String[] getEntryTypes() {
    return new String[] {
        TYPE_ENVELOPE_REQUEST,
        TYPE_ENVELOPE_RESPONSE,
        TYPE_ENVELOPE_ANY
    };
}

/* (non-Javadoc)
 * @see
 org.wsi.test.profile.validator.impl.BaseValidatorImpl#isPrimaryEntryTypeMatch(org.wsi.test.profile.TestAssertion,
 org.wsi.test.profile.validator.EntryContext)
 */
protected boolean isPrimaryEntryTypeMatch(
    TestAssertion testAssertion,
    EntryContext entryContext)
{
    boolean match = false;

    // Verify that the entry and test assertion have the same primary context
    if ((testAssertion.getEntryTypeName().equals(TYPE_ENVELOPE_ANY))
        || (testAssertion.getEntryTypeName().equals(TYPE_ENVELOPE_REQUEST)
            && (entryContext
                .getEntry()
                .getEntryType()
                .getTypeName()
                .equals(MessageValidator.TYPE_MESSAGE_REQUEST))))
        || (testAssertion.getEntryTypeName().equals(TYPE_ENVELOPE_RESPONSE)
            && (entryContext
                .getEntry()
                .getEntryType()
                .getTypeName()
                .equals(MessageValidator.TYPE_MESSAGE_RESPONSE))))
    {
        match = true;
    }

    return match;
}
}

```

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1.1203 WSO2 Identity Server 5.3.0

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addressing-1.6.1-wso2v20.mar	bundle	apache2 9597
ajaxtags_1.3.0.beta-rc7-wso2v1.jar	bundle	apache2 905
annogen_0.1.0.wso2v1.jar	bundle	apache2 942
ant-contrib-1.0b3.jar	jar	apache2 549
antlr-runtime_3.2.0.wso2v1.jar	bundle	bsd 817
antlr_3.2.0.wso2v1.jar	bundle	bsd 838
ant_1.7.0.wso2v1.jar	bundle	apache2 1012
aopalliance-1.0.jar	jar	apache2 512
apache-zookeeper_3.3.4.wso2v1.jar	bundle	apache2 4219
apacheds-avl-partition-1.5.7.jar	jarinbundle	apache2 467
apacheds-core-1.5.7.jar	jarinbundle	apache2 441
apacheds-core-annotations-1.5.7.jar	jarinbundle	apache2 440
apacheds-core-api-1.5.7.jar	jarinbundle	apache2 448
apacheds-core-avl-1.5.7.jar	jarinbundle	apache2 446
apacheds-core-constants-1.5.7.jar	jarinbundle	apache2 471
apacheds-core-entry-1.5.7.jar	jarinbundle	apache2 472
apacheds-core-jndi-1.5.7.jar	jarinbundle	apache2 469
apacheds-i18n-1.5.7.jar	jarinbundle	apache2 439

apacheds-interceptor-kerberos-1.5.7.jar	jarinbundle	apache2	447
apacheds-jdbm-1.5.7.jar	jarinbundle	apache2	461
apacheds-jdbm-partition-1.5.7.jar	jarinbundle	apache2	475
apacheds-jdbm-store-1.5.7.jar	jarinbundle	apache2	473
apacheds-kerberos-shared-1.5.7.jar	jarinbundle	apache2	456
apacheds-ldif-partition-1.5.7.jar	jarinbundle	apache2	476
apacheds-protocol-changePW-1.5.7.jar	jarinbundle	apache2	465
apacheds-protocol-dhcp-1.5.7.jar	jarinbundle	apache2	454
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apacheds-protocol-kerberos-1.5.7.jar	jarinbundle	apache2	470
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apacheds-xdbm-tools-1.5.7.jar	jarinbundle	apache2	463
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axion_1.0.0.M3-dev-wso2v1.jar	bundle	apache2	2826
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bcprov-jdk15-132.jar	jar	bouncy	285
bcprov-jdk15on-1.52.jar	jarinbundle	bouncy	1819
bcprov-jdk15on_1.52.0.wso2v1.jar	bundle	bouncy	8485
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com.google.gson_2.7.0.jar	bundle	apache2	1853
com.google.guava_19.0.0.jar	bundle	apache2	1627
commons-beanutils-1.7.0.jar	jarinbundle	apache2	383
commons-cli_1.2.0.wso2v1.jar	bundle	apache2	922
commons-codec_1.4.0.wso2v1.jar	bundle	apache2	980
commons-collections-3.2.1.jar	bundle	apache2	514
commons-collections_3.2.2.wso2v1.jar	bundle	apache2	6268

commons-configuration_1.6.0.wso2v1.jar	bundle	apache2	933
commons-dbc_p_1.4.0.wso2v1.jar	bundle	apache2	962
commons-digester-1.8.jar	jarinbundle	apache2	384
commons-fileupload_1.3.2.wso2v1.jar	bundle	apache2	9594
commons-httpclient_3.1.0.wso2v3.jar	bundle	apache2	8483
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commons-lang-2.6.0.wso2v1.jar	bundle	apache2	664
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commons-lang_2.6.0.wso2v1.jar	bundle	apache2	940
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commons-pool_1.5.6.wso2v1.jar	bundle	apache2	1009
commons-primitives_1.0.0.wso2v1.jar	bundle	apache2	2799
compass_2.0.1.wso2v2.jar	bundle	apache2	897
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csrfguard_3.1.0.wso2v2.jar	bundle	bsd	8482
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cxf-xjc-boolean-3.0.2.jar	jar	apache2	1153
cxf-xjc-bug671-3.0.2.jar	jar	apache2	1152
cxf-xjc-dv-3.0.2.jar	jar	apache2	1151
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cxf-xjc-ts-3.0.2.jar	jar	apache2	1149
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derbytools-10.4.1.3.jar	jarinbundle	apache2	696
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ehcache-core-2.5.1.jar	jar	apache2	267
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geronimo-jaxws_2.2_spec-1.0.jar	bundle	apache2	395
geronimo-jms_1.1_spec-1.1.0.wso2v1.jar	bundle	apache2	661
geronimo-jta_1.1_spec-1.1.jar	jar	apache2	1066
geronimo-kernel_2.0.1.wso2v1.jar	bundle	apache2	2802
geronimo-saaj_1.3_spec_1.0.0.wso2v3.jar	bundle	apache2	893
geronimo-spec-javamail_1.3.0.rc51-wso2v1.jar	bundle	apache2	2819
geronimo-spec-jms_1.1.0.rc4-wso2v1.jar	bundle	apache2	2828
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google-api-services-admin-directory_v1-rev28-1.17.0-rc.jar	jarinbundle	apache2	888
google-http-client-1.17.0-rc.jar	jarinbundle	apache2	887
google-http-client-jackson2-1.17.0-rc.jar	jarinbundle	apache2	886
google-oauth-client-1.17.0-rc.jar	jarinbundle	apache2	885
groovy-all_2.3.9.jar	bundle	apache2	1338
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guice_3.0.0.wso2v1.jar	bundle	apache2	1505
h2-1.3.175.jar	jarinbundle	epl1	1999

h2_1.3.175.wso2v1.jar	bundle	apache2	9731
hazelcast_3.5.4.wso2v2.jar	bundle	apache2	8481
hector-core_1.1.4.wso2v1.jar	bundle	apache2	2878
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httpcore-4.2.4.jar	jar	apache2	533
httpcore-nio-4.2.4.jar	jar	apache2	534
httpcore_4.3.3.wso2v1.jar	bundle	apache2	3638
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io.dropwizard.metrics.jvm_3.1.2.jar	bundle	apache2	1302
jackson-annotations-2.5.0.jar	jarinbundle	apache2	1552
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javasysmon_0.3.3.wso2v1.jar	bundle	bsd	721
javax.cache.wso2_4.4.11.jar	bundle	apache2	2045
javax.ws.rs-api-2.0-m10.jar	bundle	cddl+gpl	263
jaxb-impl-2.2.6.jar	jar	cddl1	1148
jaxb-xjc-2.2.6.jar	jar	cddl1	1147
jaxb_2.2.5.wso2v1.jar	bundle	cddl1	883
jdbc-pool_7.0.34.wso2v2.jar	bundle	apache2	3637
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jericho-html-2.4.jar	jarinbundle	ep11	363
jettison-1.3.4.jar	bundle	apache2	542
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joda-time_2.8.2.wso2v1.jar	bundle	apache2	6879
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js_1.7.0.R4wso2v1.jar	bundle	mpl10	2199
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libthrift_0.7.0.wso2v2.jar	bundle	apache2	912
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lucene_5.2.1.wso2v1.jar	bundle	apache2	4502
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mina-core-2.0.0-RC1.jar	jarinbundle	apache2	481
neethi-3.0.3.jar	bundle	apache2	1146
neethi_2.0.4.wso2v5.jar	bundle	apache2	6267

nekohtml-1.9.10.jar	jarinbundle	apache2	1576
net.minidev.json-smart_1.3.0.jar	bundle	apache2	1337
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ode-bpel-api-jca-1.3.5-wso2v16.jar	bundle	apache2	7550
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ode-bpel-extensions-e4x-1.3.5-wso2v16.jar	bundle	apache2	7545
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ode-jacob-1.3.5-wso2v16.jar	bundle	apache2	7535
ode-jca-ra-1.3.5-wso2v16.jar	bundle	apache2	7534
ode-jca-server-1.3.5-wso2v16.jar	bundle	apache2	7533
ode-scheduler-simple-1.3.5-wso2v16.jar	bundle	apache2	7532
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opencsv_1.8.0.wso2v1.jar	bundle	apache2	928
openid4java_1.0.0.wso2v2.jar	bundle	apache2	6216
opensaml_2.6.4.wso2v3.jar	bundle	apache2	8480
openspml2-192-20100413.jar	jarinbundle	apache2	882
openxri-client-1.2.0.jar	jarinbundle	apache2	433
openxri-syntax-1.2.0.jar	jarinbundle	apache2	434
org.apache.felix.gogo.command_0.10.0.v201209301215.jar	bundle	apache2	1134
org.apache.felix.gogo.runtime_0.10.0.v201209301036.jar	bundle	apache2	1133
org.apache.felix.gogo.shell_0.10.0.v201212101605.jar	bundle	apache2	1132
org.apache.geronimo.specs.geronimo-jpa_2.0_spec_1.1.0.jar	bundle	apache2	702
org.apache.openjpa_2.2.0.wso2v1.jar	bundle	apache2	1665
org.apache.servicemix.bundles.jaxb-api-2.0_4.0.0.m1.jar	bundle	apache2	1226
org.eclipse.core.contenttype_3.4.200.v20130326-1255.jar	bundle	ep11	1131
org.eclipse.core.expressions_3.4.500.v20130515-1343.jar	bundle	ep11	1130
org.eclipse.core.jobs_3.5.300.v20130429-1813.jar	bundle	ep11	1129
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org.eclipse.ecf.filetransfer_5.0.0.v20130604-1622.jar	bundle	ep11	1127
org.eclipse.ecf.identity_3.2.0.v20130604-1622.jar	bundle	ep11	1126

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org.eclipse.equinox.common_3.6.200.v20130402-1505.jar	bundle	epl1	1122
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org.eclipse.equinox.frameworkadmin_2.0.100.v20130327-2119.jar	bundle	epl1	1117
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org.eclipse.equinox.p2.core_2.3.0.v20130327-2119.jar	bundle	epl1	1113
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org.wso2.carbon.identity.sso.saml_5.3.0.jar	bundle	apache2	10487
org.wso2.carbon.identity.sts.mgt.stub_5.2.1.jar	bundle	apache2	10486
org.wso2.carbon.identity.sts.mgt.ui_5.2.1.jar	bundle	apache2	10485
org.wso2.carbon.identity.sts.mgt_5.2.1.jar	bundle	apache2	10484
org.wso2.carbon.identity.sts.passive.stub_5.2.1.jar	bundle	apache2	10483
org.wso2.carbon.identity.sts.passive.ui_5.2.1.jar	bundle	apache2	10482
org.wso2.carbon.identity.sts.passive_5.2.1.jar	bundle	apache2	10481
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org.wso2.carbon.identity.tools.saml.validator.stub_5.1.2.jar	bundle	apache2	10479
org.wso2.carbon.identity.tools.saml.validator.ui_5.1.2.jar	bundle	apache2	10478
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org.wso2.carbon.identity.user.registration.stub_5.7.5.jar	bundle	apache2	10729
org.wso2.carbon.identity.user.registration_5.7.5.jar	bundle	apache2	10728
org.wso2.carbon.identity.user.store.configuration.deployer_5.7.5.jar	bundle	apache2	10727
org.wso2.carbon.identity.user.store.configuration.stub_5.7.5.jar	bundle	apache2	10726
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org.wso2.carbon.identity.user.store.configuration_5.7.5.jar	bundle	apache2	10724
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org.wso2.carbon.identity.user.store.remote_5.1.2.jar	bundle	apache2	10463
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pdepublishing.jar	jar	ep11	525
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rampart-trust_1.6.1.wso2v24.jar	bundle	apache2	10407
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serp_1.13.1.wso2v1.jar	bundle	bsd	1574
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tcpmon-1.0.jar	jar	bsd	255
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tomcat-catalina-ha_7.0.73.wso2v1.jar	bundle	apache2	10344
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xmlsec-1.5.8.jar	bundle	apache2	1144

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The actual DOM Java Language Binding classes in xml-commons came from:
<http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html>

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<http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/>
<http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/>
<http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/>

The specification of DOM Level 2's various parts is at:
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/>
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/>
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/>
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/>

The specification of DOM Level 1's various parts is at:
<http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one-html.html>

Links to all available W3C DOM Java Bindings can be found at:
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The actual classes of The Simple API for CSS (SAC) came from:
<http://www.w3.org/Style/CSS/SAC/>
<http://www.w3.org/2002/06/sacjava-1.3.zip>

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<http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/>
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infinispan-core_5.1.2.wso2v1.jar	bundle	lgpl2
itext-2.1.7.jar	jarinbundle	mpl11
itext_2.1.7.wso2v1.jar	bundle	mpl11
janino_2.5.15.wso2v1.jar	bundle	bsd
jasper-jdt_6.0.18.wso2v1.jar	bundle	apache2
jasperreports_4.5.0.wso2v1.jar	bundle	lgpl2
javasysmon_0.3.3.wso2v1.jar	bundle	bsd

javax.cache.wso2_4.2.0.jar	bundle	apache2
javax.el_2.2.0.v201108011116.jar	bundle	cddl1
javax.servlet.jsp_2.2.0.v201112011158.jar	bundle	sunbinary
javax.servlet_3.0.0.v201112011016.jar	bundle	sunbinary
jaxb_2.2.5.wso2v1.jar	bundle	cddl1
jboss-logging_3.1.0.wso2v1.jar	bundle	lgpl2
jboss-transaction-api_1.1_spec-1.0.0.Final.jar	jar	lgpl2
jcifs_0.8.3.wso2v1.jar	bundle	lgpl2
jcommon-1.0.15.jar	jarinbundle	lgpl3
jcommon_1.0.15.wso2v1.jar	bundle	lgpl3
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jericho-html-2.4.jar	jarinbundle	ep11
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js-1.6R7.jar	jarinbundle	mpl11
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org.wso2.carbon.mediator.store.ui_4.2.0.jar	bundle	apache2
org.wso2.carbon.mediator.switch.ui_4.2.0.jar	bundle	apache2
org.wso2.carbon.mediator.target.ui_4.2.0.jar	bundle	apache2
org.wso2.carbon.mediator.throttle.ui_4.2.0.jar	bundle	apache2
org.wso2.carbon.mediator.transaction.ui_4.2.0.jar	bundle	apache2
org.wso2.carbon.mediator.uiless.ui_4.2.0.jar	bundle	apache2
org.wso2.carbon.mediator.urlrewrite.ui_4.2.0.jar	bundle	apache2
org.wso2.carbon.mediator.validate.ui_4.2.0.jar	bundle	apache2
org.wso2.carbon.mediator.xquery.ui_4.2.0.jar	bundle	apache2
org.wso2.carbon.mediator.xslt.ui_4.2.0.jar	bundle	apache2

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activation-1.1.1.jar	jarinbundle	cddl1 552
addressing-1.6.1-wso2v10.mar	bundle	apache2 1916
ajaxtags_1.3.0.beta-rc7-wso2v1.jar	bundle	apache2 905
amber_0.22.1358727.wso2v5.jar	bundle	apache2 3956
annogen_0.1.0.wso2v1.jar	bundle	apache2 942
ant-contrib-1.0b3.jar	jar	apache2 549
antlr-runtime_3.2.0.wso2v1.jar	bundle	bsd 817
antlr_3.2.0.wso2v1.jar	bundle	bsd 838
ant_1.7.0.wso2v1.jar	bundle	apache2 1012
aopalliance-1.0.jar	jar	apache2 512
authenticator_0.7.0.wso2v1.jar	bundle	apache2 700
axiom_1.2.11.wso2v4.jar	bundle	apache2 722
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axis2-transport-jms_1.1.0.wso2v9.jar	bundle	apache2 2167
axis2-transport-rabbitmq-amqp_1.1.0.wso2v9.jar	bundle	apache2 3075
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org.eclipse.equinox.console_1.0.0.v20120522-1841.jar	bundle	ep11	335
org.eclipse.equinox.ds_1.4.0.v20120522-1841.jar	bundle	ep11	295
org.eclipse.equinox.frameworkadmin.equinox_1.0.400.v20120428-0117.jar	bundle	ep11	302
org.eclipse.equinox.frameworkadmin_2.0.100.v20120606-175127.jar	bundle	ep11	307
org.eclipse.equinox.http.helper_1.1.0.wso2v1.jar	bundle	ep11	839
org.eclipse.equinox.http.servlet_1.1.300.v20120522-1841.jar	bundle	ep11	371
org.eclipse.equinox.jsp.jasper_1.0.400.v20120522-2049.jar	bundle	ep11	388
org.eclipse.equinox.launcher_1.3.0.v20120522-1813.jar	bundle	ep11	362
org.eclipse.equinox.p2.artifact.repository_1.1.100.v20110519.jar	bundle	ep11	337
org.eclipse.equinox.p2.console_1.0.300.v20110502-1955.jar	bundle	ep11	310
org.eclipse.equinox.p2.core_2.1.0.v20110502-1955.jar	bundle	ep11	382
org.eclipse.equinox.p2.director.app_1.0.300.v20110505.jar	bundle	ep11	343
org.eclipse.equinox.p2.directorywatcher_1.0.300.v20110502-1955.jar	bundle	ep11	336
org.eclipse.equinox.p2.director_2.1.0.v20110504-1715.jar	bundle	ep11	300
org.eclipse.equinox.p2.engine_2.1.0.v20110511.jar	bundle	ep11	387
org.eclipse.equinox.p2.extensionlocation_1.2.100.v20110510.jar	bundle	ep11	378
org.eclipse.equinox.p2.garbagecollector_1.0.200.v20110510.jar	bundle	ep11	353
org.eclipse.equinox.p2.jarprocessor_1.0.200.v20110502-1955.jar	bundle	ep11	341
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org.eclipse.equinox.p2.metadata_2.1.0.v20110510.jar	bundle	ep11	345
org.eclipse.equinox.p2.publisher_1.2.0.v20110511.jar	bundle	ep11	306
org.eclipse.equinox.p2.repository.tools_2.0.100.v20110512-1320.jar	bundle	ep11	361
org.eclipse.equinox.p2.repository_2.1.0.v20110601.jar	bundle	ep11	297
org.eclipse.equinox.p2.touchpoint.eclipse_2.1.0.v20110511-wso2v1.jar	bundle	ep11	703
org.eclipse.equinox.p2.touchpoint.natives_1.0.300.v20110502-1955.jar	bundle	ep11	299
org.eclipse.equinox.p2.transport.ecf_1.0.100.v20110902-0807.jar	bundle	ep11	369
org.eclipse.equinox.p2.updatechecker_1.1.200.v20110502-1955.jar	bundle	ep11	301
org.eclipse.equinox.p2.updatestite_1.0.300.v20110510.jar	bundle	ep11	381
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org.eclipse.wst.jsdt.debug.transport_1.0.100.v201109150330.jar	bundle	ep11	557
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org.wso2.carbon.apimgt.usage.publisher_1.2.5.jar	bundle	apache2	4616

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org.wso2.carbon.mediation.initializer_4.2.3.jar	bundle	apache2	3411
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org.wso2.carbon.mediation.statistics.ui_4.2.0.jar	bundle	apache2	1997

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org.wso2.carbon.mex_4.2.0.jar	bundle	apache2	2250
org.wso2.carbon.module.mgt_4.2.0.jar	bundle	apache2	2046
org.wso2.carbon.ndatasource.common_4.2.0.jar	bundle	apache2	2036
org.wso2.carbon.ndatasource.core_4.2.0.jar	bundle	apache2	2238
org.wso2.carbon.ndatasource.datasources_4.2.0.jar	bundle	apache2	3575
org.wso2.carbon.ndatasource.rdbms_4.2.0.jar	bundle	apache2	2062
org.wso2.carbon.ndatasource.stub_4.2.0.jar	bundle	apache2	2394
org.wso2.carbon.ndatasource.ui_4.2.3.jar	bundle	apache2	3574
org.wso2.carbon.ntask.common_4.2.1.jar	bundle	apache2	3284
org.wso2.carbon.ntask.core_4.2.4.jar	bundle	apache2	3573
org.wso2.carbon.ntask.solutions_4.2.0.jar	bundle	apache2	2134
org.wso2.carbon.operation.mgt_4.2.0.jar	bundle	apache2	2010
org.wso2.carbon.osgi.security_4.2.0.jar	bundle	apache2	2053
org.wso2.carbon.p2.touchpoint_4.2.0.jar	bundle	apache2	2051
org.wso2.carbon.proxyadmin.common_4.2.0.jar	bundle	apache2	2704
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org.wso2.carbon.qpid.stub_4.2.0.jar	bundle	apache2	2126
org.wso2.carbon.queuing_4.2.0.jar	bundle	apache2	2168
org.wso2.carbon.redirector.servlet.stub_4.2.0.jar	bundle	apache2	2192
org.wso2.carbon.redirector.servlet.ui_2.2.0.jar	bundle	apache2	2098
org.wso2.carbon.redirector.servlet_2.2.1.jar	bundle	apache2	2031
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org.wso2.carbon.registry.api_4.2.0.jar	bundle	apache2	1953
org.wso2.carbon.registry.common.ui_4.2.0.jar	bundle	apache2	2070
org.wso2.carbon.registry.common_4.2.1.jar	bundle	apache2	2085
org.wso2.carbon.registry.core_4.2.0.jar	bundle	apache2	1952
org.wso2.carbon.registry.eventing_4.2.1.jar	bundle	apache2	2107
org.wso2.carbon.registry.extensions.stub_4.2.0.jar	bundle	apache2	2013
org.wso2.carbon.registry.extensions.ui_4.2.0.jar	bundle	apache2	2208
org.wso2.carbon.registry.extensions_4.2.0.jar	bundle	apache2	2020
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org.wso2.carbon.registry.info.stub_4.2.0.jar	bundle	apache2	1999
org.wso2.carbon.registry.info.ui_4.2.0.jar	bundle	apache2	2055

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org.wso2.carbon.registry.properties.stub_4.2.0.jar	bundle	apache2	2220
org.wso2.carbon.registry.properties.ui_4.2.0.jar	bundle	apache2	1992
org.wso2.carbon.registry.properties_4.2.1.jar	bundle	apache2	2035
org.wso2.carbon.registry.relationships.stub_4.2.0.jar	bundle	apache2	1991
org.wso2.carbon.registry.relationships.ui_4.2.0.jar	bundle	apache2	1934
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org.wso2.carbon.registry.search.stub_4.2.0.jar	bundle	apache2	2121
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org.wso2.carbon.registry.server_4.2.0.jar	bundle	apache2	1950
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org.wso2.carbon.registry.ws.api_4.2.0.jar	bundle	apache2	2255
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org.wso2.carbon.webapp.mgt.ui_4.2.3.jar	bundle	apache2	3890
org.wso2.carbon.webapp.mgt_4.2.3.jar	bundle	apache2	3889
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org.wso2.ciphertool-1.0.0-wso2v2.jar	bundle	apache2	666
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org.wso2.stratos.apimgt.dashboard.ui_2.2.1.jar	bundle	apache2	4592
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perf4j_0.9.12.wso2v1.jar	bundle	apache2	832
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poi-ooxml_3.9.0.wso2v1.jar	bundle	apache2	1947
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poi_3.9.0.wso2v1.jar	bundle	apache2	2017
quartz_2.1.1.wso2v1.jar	bundle	apache2	975
rampart-core_1.6.1.wso2v12.jar	bundle	apache2	2764
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spring-aop-3.0.7.RELEASE.jar	bundle	apache2	279
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stax2-api-3.1.1.jar	bundle	bsd	545
staxon-core_1.2.0.wso2v2.jar	bundle	apache2	2678
step2-common-1.0.0-wso2v2.jar	bundle	apache2	2909
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svn-client-adapter_1.6.18.wso2v2.jar	bundle	apache2	1317
synapse-commons_2.1.2.wso2v8.jar	bundle	apache2	4591
synapse-core_2.1.2.wso2v8.jar	bundle	apache2	4590
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synapse-nhttp-transport_2.1.2.wso2v8.jar	bundle	apache2	4588
synapse-samples_2.1.2.wso2v8.jar	bundle	apache2	4587
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tcpmon-1.0.jar	jar	bsd	255
tiles-jsp_2.0.5.wso2v1.jar	bundle	apache2	989
tomcat-ha_7.0.34.wso2v1.jar	bundle	apache2	921
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tomcat-juli-7.0.34.jar	bundle	apache2	
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wadl-core_1.1.3.wso2v2.jar	bundle	apache2	1954
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waffle-jna_1.6.0.wso2v2.jar	bundle	ep11	3882
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*

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*

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1.1212 wso2ues 1.0.0

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ant-1.7.0.jar	jar	apache2
ant-launcher-1.7.0.jar	jar	apache2
aopalliance-1.0.jar	jar	apache2
axis2-clustering-1.4.1-wso2.jar	jar	apache2
axis2-jaxws-1.4.1-wso2.jar	jar	apache2
axis2-jaxws-api-1.4.1-wso2.jar	jar	sunbinary
axis2-jws-api-1.4.1-wso2.jar	jar	sunbinary
axis2-saaj-1.4.1-wso2.jar	jar	apache2
axis2-saaj-api-1.4.1-wso2.jar	jar	sunbinary
catalina-5.5.23.jar	jar	apache2
catalina-optional-5.5.23.jar	jar	apache2
commons-el-1.0.jar	jar	apache2
commons-logging-1.1.1.jar	jar	apache2
commons-modeler-1.1.jar	jar	apache2
dom4j-1.6.1.jar	jar	bsd
ejb-provider-adaptor.jar	jar	apache2
icu4j-2.6.1.jar	jar	icu
jasper-compiler-5.5.23.jar	jar	apache2
jasper-compiler-jdt-5.5.23.jar	jar	apache2
jasper-runtime-5.5.23.jar	jar	apache2
jaxb-api-2.1.jar	jar	apache2
jaxb-impl-2.1.6.jar	jar	cddl1
jaxb-xjc-2.1.6.jar	jar	cddl1
jsp-api-2.0.jar	jar	sunbinary
jsp-api-5.5.23.jar	jar	sunbinary
juli-6.0.16.jar	jar	apache2
mex-1.41-impl.jar	jar	apache2
naming-factory-dbc-5.5.23.jar	jar	apache2
org.apache.felix.framework-1.0.3.jar	jar	apache2
org.wso2.carbon.bridge-1.5.jar	jar	apache2
org.wso2.carbon.core.installer-1.5.jar	jar	apache2
org.wso2.carbon.geronimo.jta.1.1.spec-1.1.jar	jar	apache2
org.wso2.carbon.server-1.5.jar	jar	apache2
sample-ejb-1.0.jar	jar	apache2
servlet-api-2.4.jar	jar	sunbinary
servlet-api-5.5.23.jar	jar	sunbinary

servlets-default-5.5.23.jar	jar	apache2
smack-2.2.1.jar	jar	apache2
stax-api-1.0-2.jar	jar	sunbinary
tomcat-apr-5.5.23.jar	jar	apache2
tomcat-coyote-5.5.23.jar	jar	apache2
tomcat-http-5.5.23.jar	jar	apache2
tomcat-util-5.5.23.jar	jar	apache2
tribes-6.0.16.jar	jar	apache2
wrapper-3.2.3.jar	jar	mit
wso2wsas-samples-FlickrClient-3.0.jar	jar	apache2
wso2wsas-samples-chad-3.0.jar	jar	apache2
wso2wsas-samples-commodityquote-3.0.jar	jar	apache2
wso2wsas-samples-data-service-3.0.jar	jar	apache2
wso2wsas-samples-ejb-service-3.0.jar	jar	apache2
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wso2wsas-samples-eventing-consumer-3.0.jar	jar	apache2
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wso2wsas-samples-helloworld-3.0.jar	jar	apache2
wso2wsas-samples-jaxws-3.0.jar	jar	apache2
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wso2wsas-samples-mex-3.0.jar	jar	apache2
wso2wsas-samples-mtom-3.0.jar	jar	apache2
wso2wsas-samples-sts-service-3.0.jar	jar	apache2
wso2wsas-samples-tinyurl-3.0.jar	jar	apache2
wso2wsas-samples-trader-3.0.jar	jar	apache2
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wso2wsas-samples-xkms-3.0.jar	jar	apache2
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xom-1.0.jar	jar	apache2
avalon-framework-4.1.3.jar	jarinbundle	apache2
bcprov-jdk15-132.jar	jarinbundle	bouncy
commons-beanutils-1.7.0.jar	jarinbundle	apache2
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commons-dbcp-1.2.2.jar	jarinbundle	apache2
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commons-discovery-0.2.jar	jarinbundle	apache2
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derby-10.3.2.1.jar	jarinbundle	apache2
jericho-html-2.4.jar	jarinbundle	ep11
log4j-1.2.12.jar	jarinbundle	apache2
logkit-1.0.1.jar	jarinbundle	apache2
naming-factory-5.5.23.jar	jarinbundle	apache2
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poi-3.0-FINAL.jar	jarinbundle	apache2
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xmlbeans-2.3.0.jar	jarinbundle	apache2
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axis2-transport-jms-0.5.wso2.jar	bundle	apache2
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org.eclipse.equinox.registry_3.3.1.R33x_v20070802.jar	bundle	ep11
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org.wso2.carbon.ejbservices-1.5.jar	bundle	apache2

org.wso2.carbon.ejbservices.ui-1.5.jar	bundle	apache2
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org.wso2.carbon.jaxws-2.1.jar	bundle	cddl1
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org.wso2.carbon.logging.service-1.5.jar	bundle	apache2
org.wso2.carbon.logging.view.ui-1.5.jar	bundle	apache2
org.wso2.carbon.mex-1.5.jar	bundle	apache2
org.wso2.carbon.module.mgt-1.5.jar	bundle	apache2
org.wso2.carbon.module.mgt.ui-1.5.jar	bundle	apache2
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org.wso2.carbon.operation.mgt-1.5.jar	bundle	apache2
org.wso2.carbon.operation.mgt.ui-1.5.jar	bundle	apache2
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org.wso2.carbon.registry.app-1.5.jar	bundle	apache2
org.wso2.carbon.registry.core-1.5.jar	bundle	apache2
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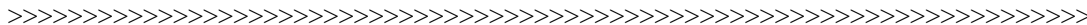
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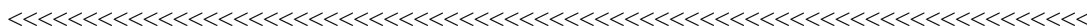
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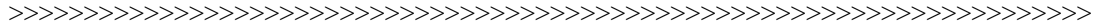
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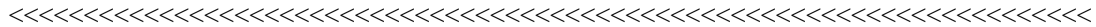
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1.1217 Xerces2 Java Parser 2.8.0

1.1218 Xerces2 Java Parser 2.8.1

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```

```
package org.opensaml.xml.schema.impl;
```

```
import java.util.List;
```

```
import org.opensaml.xml.XMLObject;
```

```
import org.opensaml.xml.schema.XSSString;
```

```
import org.opensaml.xml.validation.AbstractValidatingXMLObject;
```

```
/**
```

```
* Concrete implementation of {@link org.opensaml.xml.schema.XSSString}.
```

```
*/
```

```
public class XSSStringImpl extends AbstractValidatingXMLObject implements XSSString {
```

```
    /** Value of this string element. */
```

```
    private String value;
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected XSSStringImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
```

```
        super(namespaceURI, elementLocalName, namespacePrefix);
```

```
    }
```

```
    /**
```

```
     * {@inheritDoc}
```

```
     */
```

```
    public String getValue() {
```

```
        return value;
```

```
    }
```

```
    /**
```

```
     * {@inheritDoc}
```

```
     */
```

```

public void setValue(String newValue) {
    value = prepareForAssignment(value, newValue);
}

/**
 * {@inheritDoc}
 */
public List<XMLObject> getOrderedChildren() {
    // no children
    return null;
}
}
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 */

package org.opensaml.xml.schema.impl;

import java.util.Collections;
import java.util.List;

import org.joda.time.DateTime;
import org.joda.time.chrono.ISOChronology;
import org.joda.time.format.DateTimeFormatter;
import org.joda.time.format.ISODateTimeFormat;
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.schema.XSDateTime;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

/**
 * Concrete implementation of {@link org.opensaml.xml.schema.XSDateTime}.
 */
public class XSDateTimeImpl extends AbstractValidatingXMLObject implements XSDateTime {

    /** Value of this dateTime element. */

```



```

private DateTime value;

/** The date time formatter to use. */
private DateTimeFormatter formatter;

/**
 * Constructor.
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected XSDDateTimeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    formatter = ISODateTimeFormat.dateTime().withChronology(ISOChronology.getInstanceUTC());
}

/** {@inheritDoc} */
public DateTime getValue() {
    return value;
}

/** {@inheritDoc} */
public void setValue(DateTime newValue) {
    value = prepareForAssignment(value, newValue);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return Collections.emptyList();
}

/** {@inheritDoc} */
public DateTimeFormatter getDateFormatter() {
    return formatter;
}

/** {@inheritDoc} */
public void setDateFormatter(DateTimeFormatter newFormatter) {
    if (newFormatter == null) {
        throw new IllegalArgumentException("The specified DateTimeFormatter may not be null");
    }
    formatter = newFormatter;
}

}
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```

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```

```
package org.opensaml.xml.schema.impl;
```

```
import java.util.Collections;
import java.util.LinkedList;
import java.util.List;
```

```
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.schema.XSURI;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;
```

```
/**
```

```
 * Concrete implementation of {@link org.opensaml.xml.schema.XSURI}.

```

```
*/
```

```
public class XSURIImpl extends AbstractValidatingXMLObject implements XSURI {
```

```
    /** URI value. */
```

```
    private String value;
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace

```

```
     */
```

```
    protected XSURIImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

```

```
    /** {@inheritDoc} */
```

```
    public String getValue() {
        return value;
    }

```

```

/** {@inheritDoc} */
public void setValue(String newValue) {
    value = prepareForAssignment(value, newValue);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return Collections.unmodifiableList(new LinkedList<XMLObject>());
}
}
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 */

package org.opensaml.xml.schema.impl;

import java.util.List;

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.schema.XSBASE64Binary;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

/**
 * Concrete implementation of {@link org.opensaml.xml.schema.XSBASE64Binary}.
 */
public class XSBASE64BinaryImpl extends AbstractValidatingXMLObject implements XSBASE64Binary {

    /** Value of this base64Binary element. */
    private String value;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace

```

```

*/
protected XSBase64BinaryImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/**
 * {@inheritDoc}
 */
public String getValue() {
    return value;
}

/**
 * {@inheritDoc}
 */
public void setValue(String newValue) {
    value = prepareForAssignment(value, newValue);
}

/**
 * {@inheritDoc}
 */
public List<XMLObject> getOrderedChildren() {
    // no children
    return null;
}
}
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 */

package org.opensaml.xml.schema.impl;

import java.util.Collections;
import java.util.LinkedList;
import java.util.List;

```

```

import javax.xml.namespace.QName;

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.schema.XSQName;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

/**
 * Concrete implementation of {@link org.opensaml.xml.schema.XSQName}.
 */
public class XSQNameImpl extends AbstractValidatingXMLObject implements XSQName {

    /** QName value. */
    private QName value;

    /**
     * Constructor.
     *
     * @param namespaceURI the namespace the element is in
     * @param elementLocalName the local name of the XML element this Object represents
     * @param namespacePrefix the prefix for the given namespace
     */
    protected XSQNameImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public QName getValue() {
        return value;
    }

    /** {@inheritDoc} */
    public void setValue(QName newValue) {
        value = prepareElementContentForAssignment(value, newValue);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        return Collections.unmodifiableList(new LinkedList<XMLObject>());
    }
}

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*/

```

```
package org.opensaml.xml.schema.impl;
```

```
import java.util.List;
```

```
import org.opensaml.xml.XMLObject;
```

```
import org.opensaml.xml.schema.XSInteger;
```

```
import org.opensaml.xml.validation.AbstractValidatingXMLObject;
```

```
/**
```

```
 * Concrete implementation of {@link org.opensaml.xml.schema.XSInteger}.
```

```
*/
```

```
public class XSIntegerImpl extends AbstractValidatingXMLObject implements XSInteger {
```

```
    /** Value of this integer element. */
```

```
    private Integer value;
```

```
    /**
```

```
     * Constructor.
```

```
     *
```

```
     * @param namespaceURI the namespace the element is in
```

```
     * @param elementLocalName the local name of the XML element this Object represents
```

```
     * @param namespacePrefix the prefix for the given namespace
```

```
     */
```

```
    protected XSIntegerImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

```

```
    /**
```

```
     * {@inheritDoc}
```

```
     */
```

```
    public Integer getValue() {
        return value;
    }

```

```
    /**
```

```
     * {@inheritDoc}
```

```
     */
```

```
    public void setValue(Integer newValue) {
        value = prepareForAssignment(value, newValue);
    }

```

```

}

/**
 * {@inheritDoc}
 */
public List<XMLObject> getOrderedChildren() {
    // no children
    return null;
}
}
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 */

package org.opensaml.xml.schema.impl;

import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.schema.XSAny;
import org.opensaml.xml.util.AttributeMap;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

/**
 * Concrete implementation of {@link XSAny}.
 */
public class XSAnyImpl extends AbstractValidatingXMLObject implements XSAny {

    /** Child XMLObjects. */
    private IndexedXMLObjectChildrenList<XMLObject> unknownXMLObjects;

    /** Attributes for this element. */

```

```

private AttributeMap unknownAttributes;

/** Text content of the element. */
private String textContent;

/**
 * Constructor.
 *
 * @param namespaceURI the namespace the element is in
 * @param elementLocalName the local name of the XML element this Object represents
 * @param namespacePrefix the prefix for the given namespace
 */
protected XSAnyImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);

    unknownXMLObjects = new IndexedXMLObjectChildrenList<XMLObject>(this);
    unknownAttributes = new AttributeMap(this);
}

/** {@inheritDoc} */
public String getTextContent() {
    return textContent;
}

/** {@inheritDoc} */
public void setTextContent(String newContent) {
    textContent = prepareForAssignment(textContent, newContent);
}

/** {@inheritDoc} */
public List<XMLObject> getUnknownXMLObjects() {
    return unknownXMLObjects;
}

/** {@inheritDoc} */
public List<XMLObject> getUnknownXMLObjects(QName typeOrName) {
    return (List<XMLObject>) unknownXMLObjects.subList(typeOrName);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    return Collections.unmodifiableList(unknownXMLObjects);
}

/** {@inheritDoc} */
public AttributeMap getUnknownAttributes() {
    return unknownAttributes;
}

```



```

}
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 */

package org.opensaml.xml.util;

import java.util.WeakHashMap;

/**
 * A simple implementation of { @link SingletonFactory }.
 *
 * <p>
 * A { @link WeakHashMap } is used as the underlying store. This ensures that if the input class
 * instance become otherwise unused (weakly reachable), the input class instance key used
 * within the factory will not prevent the input class instance from being garbage-collected,
 * thereby preventing a memory leak.
 * </p>
 *
 * <p>
 * <strong>NOTE: </strong>If the output class instance holds a strong or soft reference to the input class,
 * do not use this factory. See instead { @link AbstractWrappedSingletonFactory }. Usage of this
 * class in that scenario will result in a memory leak, as the input class instance will never
 * become weakly reachable and therefore never garbage collected.
 * </p>
 *
 * @param <Input> the factory input class type
 * @param <Output> the factory output class type
 */
public abstract class AbstractSimpleSingletonFactory<Input, Output>
    extends AbstractSingletonFactory<Input, Output> {

    /** Storage for the factory. */
    private WeakHashMap<Input, Output> map;

```

```

/** Constructor. */
public AbstractSimpleSingletonFactory() {
    map = new WeakHashMap<Input, Output>();
}

/** {@inheritDoc} */
protected synchronized Output get(Input input) {
    return map.get(input);
}

/** {@inheritDoc} */
protected synchronized void put(Input input, Output output) {
    map.put(input, output);
}

}
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 */

package org.opensaml.xml.encryption;

import javax.xml.namespace.QName;

import org.opensaml.xml.signature.CryptoBinary;
import org.opensaml.xml.util.XMLConstants;

/**
 * XMLObject representing XML Encryption, version 20021210, Public element.
 */
public interface Public extends CryptoBinary {

    /** Element local name. */
    public static final String DEFAULT_ELEMENT_LOCAL_NAME = "Public";

    /** Default element name. */

```

```

    public static final QName DEFAULT_ELEMENT_NAME = new QName(XMLConstants.XMLENC_NS,
DEFAULT_ELEMENT_LOCAL_NAME,
        XMLConstants.XMLENC_PREFIX);

}
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*/

package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.AbstractXMLObjectBuilder;
import org.opensaml.xml.encryption.Public;
import org.opensaml.xml.encryption.XMLEncryptionBuilder;
import org.opensaml.xml.util.XMLConstants;

/**
* Builder of {@link org.opensaml.xml.encryption.Public}
*/
public class PublicBuilder extends AbstractXMLObjectBuilder<Public> implements
XMLEncryptionBuilder<Public> {

    /**
    * Constructor
    */
    public PublicBuilder() {
    }

    /** {@inheritDoc} */
    public Public buildObject(String namespaceURI, String localName, String namespacePrefix) {
        return new PublicImpl(namespaceURI, localName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public Public buildObject() {

```

```

        return buildObject(XMLConstants.XMLENC_NS, Public.DEFAULT_ELEMENT_LOCAL_NAME,
XMLConstants.XMLENC_PREFIX);
    }

}

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 */

package org.opensaml.xml.encryption.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.encryption.EncryptionMethod;
import org.opensaml.xml.encryption.KeySize;
import org.opensaml.xml.encryption.OAEPparams;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.EncryptionMethod}.
 */
public class EncryptionMethodImpl extends AbstractValidatingXMLObject implements EncryptionMethod {

    /** Algorithm attribute value. */
    private String algorithm;

    /** KeySize child element value. */
    private KeySize keySize;

    /** OAEPparams child element value. */

```

```

private OAEPparams oaepParams;

/** "any" children. */
private final IndexedXMLObjectChildrenList<XMLObject> unknownChildren;

/**
 * Constructor.
 *
 * @param namespaceURI
 * @param elementLocalName
 * @param namespacePrefix
 */
protected EncryptionMethodImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);

    unknownChildren = new IndexedXMLObjectChildrenList<XMLObject>(this);
}

/** {@inheritDoc} */
public String getAlgorithm() {
    return this.algorithm;
}

/** {@inheritDoc} */
public void setAlgorithm(String newAlgorithm) {
    this.algorithm = prepareForAssignment(this.algorithm, newAlgorithm);
}

/** {@inheritDoc} */
public KeySize getKeySize() {
    return this.keySize;
}

/** {@inheritDoc} */
public void setKeySize(KeySize newKeySize) {
    this.keySize = prepareForAssignment(this.keySize, newKeySize);
}

/** {@inheritDoc} */
public OAEPparams getOAEPparams() {
    return this.oaepParams;
}

/** {@inheritDoc} */
public void setOAEPparams(OAEPparams newOAEPparams) {
    this.oaepParams = prepareForAssignment(this.oaepParams, newOAEPparams);
}

```

```

/** {@inheritDoc} */
public List<XMLObject> getUnknownXMLObjects() {
    return this.unknownChildren;
}
/** {@inheritDoc} */
public List<XMLObject> getUnknownXMLObjects(QName typeOrName) {
    return (List<XMLObject>) unknownChildren.subList(typeOrName);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();

    if (keySize != null) {
        children.add(keySize);
    }
    if (oaepParams != null) {
        children.add(oaepParams);
    }

    children.addAll(unknownChildren);

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}

}
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 */

package org.opensaml.xml.encryption.impl;

```

```

import org.opensaml.xml.encryption.Generator;
import org.opensaml.xml.signature.impl.CryptoBinaryImpl;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.Generator}
 */
public class GeneratorImpl extends CryptoBinaryImpl implements Generator {

    /**
     * Constructor
     *
     * @param namespaceURI
     * @param elementLocalName
     * @param namespacePrefix
     */
    protected GeneratorImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

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 */

package org.opensaml.xml.encryption.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.encryption.AgreementMethod;
import org.opensaml.xml.encryption.KANonce;

```

```

import org.opensaml.xml.encryption.OriginatorKeyInfo;
import org.opensaml.xml.encryption.RecipientKeyInfo;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.AgreementMethod}.
 */
public class AgreementMethodImpl extends AbstractValidatingXMLObject implements AgreementMethod {

    /** Algorithm attribute value. */
    private String algorithm;

    /** KA-Nonce child element value. */
    private KANonce kaNonce;

    /** OriginatorKeyInfo child element value. */
    private OriginatorKeyInfo originatorKeyInfo;

    /** RecipientKeyInfo child element value. */
    private RecipientKeyInfo recipientKeyInfo;

    /** List of wildcard <any> XMLObject children. */
    private IndexedXMLObjectChildrenList xmlChildren;

    /**
     * Constructor.
     *
     * @param namespaceURI namespace URI
     * @param elementLocalName element local name
     * @param namespacePrefix namespace prefix
     */
    protected AgreementMethodImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        xmlChildren = new IndexedXMLObjectChildrenList(this);
    }

    /** {@inheritDoc} */
    public String getAlgorithm() {
        return this.algorithm;
    }

    /** {@inheritDoc} */
    public void setAlgorithm(String newAlgorithm) {
        this.algorithm = prepareForAssignment(this.algorithm, newAlgorithm);
    }

    /** {@inheritDoc} */

```



```

public KANonce getKANonce() {
    return this.kaNonce;
}

/** {@inheritDoc} */
public void setKANonce(KANonce newKANonce) {
    this.kaNonce = prepareForAssignment(this.kaNonce, newKANonce);
}

/** {@inheritDoc} */
public OriginatorKeyInfo getOriginatorKeyInfo() {
    return this.originatorKeyInfo;
}

/** {@inheritDoc} */
public void setOriginatorKeyInfo(OriginatorKeyInfo newOriginatorKeyInfo) {
    this.originatorKeyInfo = prepareForAssignment(this.originatorKeyInfo, newOriginatorKeyInfo);
}

/** {@inheritDoc} */
public RecipientKeyInfo getRecipientKeyInfo() {
    return this.recipientKeyInfo;
}

/** {@inheritDoc} */
public void setRecipientKeyInfo(RecipientKeyInfo newRecipientKeyInfo) {
    this.recipientKeyInfo = prepareForAssignment(this.recipientKeyInfo, newRecipientKeyInfo);
}

/** {@inheritDoc} */
public List<XMLObject> getUnknownXMLObjects() {
    return (List<XMLObject>) this.xmlChildren;
}

/** {@inheritDoc} */
public List<XMLObject> getUnknownXMLObjects(QName typeOrName) {
    return (List<XMLObject>) this.xmlChildren.subList(typeOrName);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();

    if (kaNonce != null) {
        children.add(kaNonce);
    }

    children.addAll(xmlChildren);
}

```

```

    if (originatorKeyInfo != null) {
        children.add(originatorKeyInfo);
    }
    if (recipientKeyInfo != null) {
        children.add(recipientKeyInfo);
    }

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}

}
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 */

package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.encryption.DataReference;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.DataReference}.
 */
public class DataReferenceImpl extends ReferenceTypeImpl implements DataReference {

    /**
     * Constructor.
     *
     * @param namespaceURI namespace URI
     * @param elementLocalName local name
     * @param namespacePrefix namespace prefix
     */
    protected DataReferenceImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {

```

```

        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}
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 */

package org.opensaml.xml.encryption.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.encryption.CipherData;
import org.opensaml.xml.encryption.CipherReference;
import org.opensaml.xml.encryption.CipherValue;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.CipherData}.
 */
public class CipherDataImpl extends AbstractValidatingXMLObject implements CipherData {

    /** CipherValue child element. */
    private CipherValue cipherValue;

    /** CipherReference child element. */
    private CipherReference cipherReference;

    /**
     * Constructor.
     *
     * @param namespaceURI namespace URI
     * @param elementLocalName local name

```

```

* @param namespacePrefix namespace prefix
*/
protected CipherDataImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public CipherValue getCipherValue() {
    return this.cipherValue;
}

/** {@inheritDoc} */
public void setCipherValue(CipherValue newCipherValue) {
    this.cipherValue = prepareForAssignment(this.cipherValue, newCipherValue);
}

/** {@inheritDoc} */
public CipherReference getCipherReference() {
    return this.cipherReference;
}

/** {@inheritDoc} */
public void setCipherReference(CipherReference newCipherReference) {
    this.cipherReference = prepareForAssignment(this.cipherReference, newCipherReference);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();

    if (cipherValue != null) {
        children.add(cipherValue);
    }
    if (cipherReference != null) {
        children.add(cipherReference);
    }

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}
}
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```

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*/

```
package org.opensaml.xml.encryption.impl;
```

```
import java.util.ArrayList;  
import java.util.Collections;  
import java.util.List;
```

```
import org.opensaml.xml.XMLObject;  
import org.opensaml.xml.encryption.CipherData;  
import org.opensaml.xml.encryption.EncryptedType;  
import org.opensaml.xml.encryption.EncryptionMethod;  
import org.opensaml.xml.encryption.EncryptionProperties;  
import org.opensaml.xml.signature.KeyInfo;  
import org.opensaml.xml.validation.AbstractValidatingXMLObject;
```

```
/**
```

```
 * Abstract implementation of { @link org.opensaml.xml.encryption.EncryptedType }.
```

```
*/
```

```
public abstract class EncryptedTypeImpl extends AbstractValidatingXMLObject implements EncryptedType {
```

```
    /** id attribute value. */
```

```
    private String id;
```

```
    /** Type attribute value. */
```

```
    private String type;
```

```
    /** Mime Type attribute value. */
```

```
    private String mimeType;
```

```
    /** Encoding attribute value. */
```

```
    private String encoding;
```

```
    /** EncryptionMethod child element. */
```

```
    private EncryptionMethod encryptionMethod;
```

```
    /** EncryptionMethod child element. */
```

```

private KeyInfo keyInfo;

/** CipherData child element. */
private CipherData cipherData;

/** EncryptionProperties child element. */
private EncryptionProperties encryptionProperties;

/**
 * Constructor
 *
 * @param namespaceURI
 * @param elementLocalName
 * @param namespacePrefix
 */
protected EncryptedTypeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public String getID() {
    return this.id;
}

/** {@inheritDoc} */
public void setID(String newID) {
    String oldID = this.id;
    this.id = prepareForAssignment(this.id, newID);
    registerOwnID(oldID, this.id);
}

/** {@inheritDoc} */
public String getType() {
    return this.type;
}

/** {@inheritDoc} */
public void setType(String newType) {
    this.type = prepareForAssignment(this.type, newType);
}

/** {@inheritDoc} */
public String getMimeType() {
    return this.mimeType;
}

/** {@inheritDoc} */
public void setMimeType(String newMimeType) {

```

```

        this.mimeType = prepareForAssignment(this.mimeType, newMimeType);
    }

    /** {@inheritDoc} */
    public String getEncoding() {
        return this.encoding;
    }

    /** {@inheritDoc} */
    public void setEncoding(String newEncoding) {
        this.encoding = prepareForAssignment(this.encoding, newEncoding);
    }

    /** {@inheritDoc} */
    public EncryptionMethod getEncryptionMethod() {
        return this.encryptionMethod;
    }

    /** {@inheritDoc} */
    public void setEncryptionMethod(EncryptionMethod newEncryptionMethod) {
        this.encryptionMethod = prepareForAssignment(this.encryptionMethod, newEncryptionMethod);
    }

    /** {@inheritDoc} */
    public KeyInfo getKeyInfo() {
        return this.keyInfo;
    }

    /** {@inheritDoc} */
    public void setKeyInfo(KeyInfo newKeyInfo) {
        this.keyInfo = prepareForAssignment(this.keyInfo, newKeyInfo);
    }

    /** {@inheritDoc} */
    public CipherData getCipherData() {
        return this.cipherData;
    }

    /** {@inheritDoc} */
    public void setCipherData(CipherData newCipherData) {
        this.cipherData = prepareForAssignment(this.cipherData, newCipherData);
    }

    /** {@inheritDoc} */
    public EncryptionProperties getEncryptionProperties() {
        return this.encryptionProperties;
    }
}

```

```

/** {@inheritDoc} */
public void setEncryptionProperties(EncryptionProperties newEncryptionProperties) {
    this.encryptionProperties = prepareForAssignment(this.encryptionProperties, newEncryptionProperties);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();

    if (encryptionMethod != null) {
        children.add(encryptionMethod);
    }
    if (keyInfo != null) {
        children.add(keyInfo);
    }
    if (cipherData != null) {
        children.add(cipherData);
    }
    if (encryptionProperties != null) {
        children.add(encryptionProperties);
    }

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}

}
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 */

package org.opensaml.xml.encryption.impl;

```



```

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.encryption.CipherReference;
import org.opensaml.xml.encryption.Transforms;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.CipherReference}.
 */
public class CipherReferenceImpl extends AbstractValidatingXMLObject implements CipherReference {

    /** URI attribute value. */
    private String uri;

    /** Transforms child element value. */
    private Transforms transforms;

    /**
     * Constructor.
     *
     * @param namespaceURI namespace URI
     * @param elementLocalName local name
     * @param namespacePrefix namespace prefix
     */
    protected CipherReferenceImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public String getURI() {
        return this.uri;
    }

    /** {@inheritDoc} */
    public void setURI(String newURI) {
        this.uri = prepareForAssignment(this.uri, newURI);
    }

    /** {@inheritDoc} */
    public Transforms getTransforms() {
        return this.transforms;
    }

    /** {@inheritDoc} */
    public void setTransforms(Transforms newTransforms) {

```

```

        this.transforms = prepareForAssignment(this.transforms, newTransforms);
    }

    /** {@inheritDoc} */
    public List<XMLObject> getOrderedChildren() {
        ArrayList<XMLObject> children = new ArrayList<XMLObject>();

        if (transforms != null) {
            children.add(transforms);
        }

        if (children.size() == 0) {
            return null;
        }

        return Collections.unmodifiableList(children);
    }
}

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 */

package org.opensaml.xml.encryption.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import javax.xml.namespace.QName;

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.util.AttributeMap;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

```

```

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.EncryptionProperty}
 */
public class EncryptionPropertyImpl extends AbstractValidatingXMLObject implements
    org.opensaml.xml.encryption.EncryptionProperty {

    /** Target attribute value */
    private String target;

    /** Id attribute value */
    private String id;

    /** Child elements from the <any> content model */
    private final IndexedXMLObjectChildrenList unknownChildren;

    /** "anyAttribute" attributes */
    private final AttributeMap unknownAttributes;

    /**
     * Constructor
     *
     * @param namespaceURI
     * @param elementLocalName
     * @param namespacePrefix
     */
    protected EncryptionPropertyImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        unknownChildren = new IndexedXMLObjectChildrenList<XMLObject>(this);
        unknownAttributes = new AttributeMap(this);
    }

    /** {@inheritDoc} */
    public String getTarget() {
        return this.target;
    }

    /** {@inheritDoc} */
    public void setTarget(String newTarget) {
        this.target = prepareForAssignment(this.target, newTarget);
    }

    /** {@inheritDoc} */
    public String getID() {
        return this.id;
    }

    /** {@inheritDoc} */
    public void setID(String newID) {

```

```

String oldID = this.id;
this.id = prepareForAssignment(this.id, newID);
registerOwnID(oldID, this.id);
}

/** {@inheritDoc} */
public AttributeMap getUnknownAttributes() {
    return unknownAttributes;
}

/** {@inheritDoc} */
public List<XMLObject> getUnknownXMLObjects() {
    return (List<XMLObject>) unknownChildren;
}

/** {@inheritDoc} */
public List<XMLObject> getUnknownXMLObjects(QName typeOrName) {
    return (List<XMLObject>) unknownChildren.subList(typeOrName);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();

    children.addAll((List<XMLObject>) unknownChildren);

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}

}
/*
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 */

```

```

package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.encryption.OAEPparams;
import org.opensaml.xml.schema.impl.XSBASE64BinaryImpl;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.OAEPparams}
 */
public class OAEPparamsImpl extends XSBASE64BinaryImpl implements OAEPparams {

    /**
     * Constructor
     *
     * @param namespaceURI
     * @param elementLocalName
     * @param namespacePrefix
     */
    protected OAEPparamsImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

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 */

package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.encryption.EncryptedData;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.EncryptedData}.
 */
public class EncryptedDataImpl extends EncryptedTypeImpl implements EncryptedData {

```

```

/**
 * Constructor.
 *
 * @param namespaceURI namespace URI
 * @param elementLocalName local name
 * @param namespacePrefix namespace prefix
 */
protected EncryptedDataImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

}

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 */

package org.opensaml.xml.encryption.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.encryption.DataReference;
import org.opensaml.xml.encryption.KeyReference;
import org.opensaml.xml.encryption.ReferenceList;
import org.opensaml.xml.encryption.ReferenceType;
import org.opensaml.xml.util.IndexedXMLObjectChildrenList;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

/**
 * Concrete implementation of { @link org.opensaml.xml.encryption.ReferenceList}
 */
public class ReferenceListImpl extends AbstractValidatingXMLObject implements ReferenceList {

    /** ReferenceType child elements */

```

```

private final IndexedXMLObjectChildrenList indexedChildren;

/**
 * Constructor
 *
 * @param namespaceURI
 * @param elementLocalName
 * @param namespacePrefix
 */
protected ReferenceListImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
    indexedChildren = new IndexedXMLObjectChildrenList<ReferenceType>(this);
}

/** {@inheritDoc} */
public List<ReferenceType> getReferences() {
    return (List<ReferenceType>) indexedChildren;
}

/** {@inheritDoc} */
public List<DataReference> getDataReferences() {
    return (List<DataReference>) indexedChildren.subList(DataReference.DEFAULT_ELEMENT_NAME);
}

/** {@inheritDoc} */
public List<KeyReference> getKeyReferences() {
    return (List<KeyReference>) indexedChildren.subList(KeyReference.DEFAULT_ELEMENT_NAME);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();

    children.addAll((List<XMLObject>) indexedChildren);

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}

}
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*/

```

```
package org.opensaml.xml.encryption.impl;
```

```
import org.opensaml.xml.encryption.Public;
import org.opensaml.xml.signature.impl.CryptoBinaryImpl;
```

```
/**
```

```
* Concrete implementation of { @link org.opensaml.xml.encryption.Public }
```

```
*/
```

```
public class PublicImpl extends CryptoBinaryImpl implements Public {
```

```
    /**
```

```
    * Constructor
```

```
    *
```

```
    * @param namespaceURI
```

```
    * @param elementLocalName
```

```
    * @param namespacePrefix
```

```
    */
```

```
    protected PublicImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
```

```
    }
```

```
    /**
```

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```

*/

package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.encryption.Q;
import org.opensaml.xml.signature.impl.CryptoBinaryImpl;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.Q}
 */
public class QImpl extends CryptoBinaryImpl implements Q {

    /**
     * Constructor
     *
     * @param namespaceURI
     * @param elementLocalName
     * @param namespacePrefix
     */
    protected QImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

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 */

package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.encryption.P;
import org.opensaml.xml.signature.impl.CryptoBinaryImpl;

/**

```

```

* Concrete implementation of {@link org.opensaml.xml.encryption.P}
*/
public class PImpl extends CryptoBinaryImpl implements P {

    /**
     * Constructor
     *
     * @param namespaceURI
     * @param elementLocalName
     * @param namespacePrefix
     */
    protected PImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

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*/

package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.encryption.Seed;
import org.opensaml.xml.signature.impl.CryptoBinaryImpl;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.Seed}
 */
public class SeedImpl extends CryptoBinaryImpl implements Seed {

    /**
     * Constructor
     *
     * @param namespaceURI
     * @param elementLocalName

```

```

    * @param namespacePrefix
    */
    protected SeedImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
}
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 */

package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.encryption.CipherValue;
import org.opensaml.xml.schema.impl.XSBase64BinaryImpl;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.CipherValue}.
 */
public class CipherValueImpl extends XSBase64BinaryImpl implements CipherValue {

    /**
     * Constructor.
     *
     * @param namespaceURI namespace URI
     * @param elementLocalName local name
     * @param namespacePrefix namespace prefix
     */
    protected CipherValueImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
}
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*/
```

```
package org.opensaml.xml.encryption.impl;
```

```
import org.opensaml.xml.encryption.KeyReference;
```

```
/**
```

```
*
```

```
*/
```

```
public class KeyReferenceImpl extends ReferenceTypeImpl implements KeyReference {
```

```
    /**
```

```
     * Constructor
```

```
     *
```

```
     * @param namespaceURI
```

```
     * @param elementLocalName
```

```
     * @param namespacePrefix
```

```
     */
```

```
    protected KeyReferenceImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
```

```
}
```

```
/**
```

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```

*/

package org.opensaml.xml.encryption.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.encryption.DHKeyValue;
import org.opensaml.xml.encryption.Generator;
import org.opensaml.xml.encryption.P;
import org.opensaml.xml.encryption.PgenCounter;
import org.opensaml.xml.encryption.Public;
import org.opensaml.xml.encryption.Q;
import org.opensaml.xml.encryption.Seed;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.DHKeyValue}.
 */
public class DHKeyValueImpl extends AbstractValidatingXMLObject implements DHKeyValue {

    /** P child element. */
    private P p;

    /** Q child element. */
    private Q q;

    /** Generator child element. */
    private Generator generator;

    /** Public element. */
    private Public publicChild;

    /** seed child element. */
    private Seed seed;

    /** pgenCounter child element. */
    private PgenCounter pgenCounter;

    /**
     * Constructor.
     *
     * @param namespaceURI namespace URI
     * @param elementLocalName local name
     * @param namespacePrefix namespace prefix
     */
}

```

```

protected DHKeyValueImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
    super(namespaceURI, elementLocalName, namespacePrefix);
}

/** {@inheritDoc} */
public P getP() {
    return this.p;
}

/** {@inheritDoc} */
public void setP(P newP) {
    this.p = prepareForAssignment(this.p, newP);
}

/** {@inheritDoc} */
public Q getQ() {
    return this.q;
}

/** {@inheritDoc} */
public void setQ(Q newQ) {
    this.q = prepareForAssignment(this.q, newQ);
}

/** {@inheritDoc} */
public Generator getGenerator() {
    return this.generator;
}

/** {@inheritDoc} */
public void setGenerator(Generator newGenerator) {
    this.generator = prepareForAssignment(this.generator, newGenerator);
}

/** {@inheritDoc} */
public Public getPublic() {
    return this.publicChild;
}

/** {@inheritDoc} */
public void setPublic(Public newPublic) {
    this.publicChild = prepareForAssignment(this.publicChild, newPublic);
}

/** {@inheritDoc} */
public Seed getSeed() {
    return this.seed;
}

```

```

/** {@inheritDoc} */
public void setSeed(Seed newSeed) {
    this.seed = prepareForAssignment(this.seed, newSeed);
}

/** {@inheritDoc} */
public PgenCounter getPgenCounter() {
    return this.pgenCounter;
}

/** {@inheritDoc} */
public void setPgenCounter(PgenCounter newPgenCounter) {
    this.pgenCounter = prepareForAssignment(this.pgenCounter, newPgenCounter);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();

    if (p != null) {
        children.add(p);
    }
    if (q != null) {
        children.add(q);
    }
    if (generator != null) {
        children.add(generator);
    }
    if (publicChild != null) {
        children.add(publicChild);
    }
    if (seed != null) {
        children.add(seed);
    }
    if (pgenCounter != null) {
        children.add(pgenCounter);
    }

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}
}

```

```

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*/

```

```
package org.opensaml.xml.encryption.impl;
```

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
```

```
import org.opensaml.xml.XMLObject;
import org.opensaml.xml.encryption.Transforms;
import org.opensaml.xml.signature.Transform;
import org.opensaml.xml.util.XMLObjectChildrenList;
import org.opensaml.xml.validation.AbstractValidatingXMLObject;
```

```
/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.Transforms}
 */
public class TransformsImpl extends AbstractValidatingXMLObject implements Transforms {
```

```
    private final XMLObjectChildrenList transforms;
```

```
    /**
     * Constructor
     *
     * @param namespaceURI
     * @param elementLocalName
     * @param namespacePrefix
     */
    protected TransformsImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
        transforms = new XMLObjectChildrenList<Transform>(this);
    }

```

```
    /** {@inheritDoc} */

```



```

public List<Transform> getTransforms() {
    return (List<Transform>) this.transforms;
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();

    children.addAll((List<Transform>) transforms);

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}

}
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 */

package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.encryption.KeySize;
import org.opensaml.xml.schema.impl.XSIntegerImpl;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.KeySize}
 */
public class KeySizeImpl extends XSIntegerImpl implements KeySize {

    /**
     * Constructor
     *
     * @param namespaceURI

```

```

    * @param elementLocalName
    * @param namespacePrefix
    */
    protected KeySizeImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
}
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package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.encryption.RecipientKeyInfo;
import org.opensaml.xml.signature.impl.KeyInfoTypeImpl;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.RecipientKeyInfo}
 */
public class RecipientKeyInfoImpl extends KeyInfoTypeImpl implements RecipientKeyInfo {

    /**
     * Constructor
     *
     * @param namespaceURI
     * @param elementLocalName
     * @param namespacePrefix
     */
    protected RecipientKeyInfoImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }
}
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*/

package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.encryption.KANonce;
import org.opensaml.xml.schema.impl.XSBase64BinaryImpl;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.KANonce}
 */
public class KANonceImpl extends XSBase64BinaryImpl implements KANonce {

    /**
     * Constructor
     *
     * @param namespaceURI
     * @param elementLocalName
     * @param namespacePrefix
     */
    protected KANonceImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

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*/

package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.encryption.CarriedKeyName;
import org.opensaml.xml.schema.impl.XSSStringImpl;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.CarriedKeyName}.
 */
public class CarriedKeyNameImpl extends XSSStringImpl implements CarriedKeyName {

    /**
     * Constructor.
     *
     * @param namespaceURI namespace URI
     * @param elementLocalName local name
     * @param namespacePrefix namespace prefix
     */
    protected CarriedKeyNameImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

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*/

package org.opensaml.xml.encryption.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

```

```

import org.opensaml.xml.XMLObject;
import org.opensaml.xml.encryption.CarriedKeyName;
import org.opensaml.xml.encryption.EncryptedKey;
import org.opensaml.xml.encryption.ReferenceList;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.EncryptedKey}.
 */
public class EncryptedKeyImpl extends EncryptedTypeImpl implements EncryptedKey {

    /** Recipient value. */
    private String recipient;

    /** CarriedKeyName value. */
    private CarriedKeyName carriedKeyName;

    /** ReferenceList value. */
    private ReferenceList referenceList;

    /**
     * Constructor.
     *
     * @param namespaceURI namespace URI
     * @param elementLocalName local name
     * @param namespacePrefix namespace prefix
     */
    protected EncryptedKeyImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

    /** {@inheritDoc} */
    public String getRecipient() {
        return this.recipient;
    }

    /** {@inheritDoc} */
    public void setRecipient(String newRecipient) {
        this.recipient = prepareForAssignment(this.recipient, newRecipient);
    }

    /** {@inheritDoc} */
    public ReferenceList getReferenceList() {
        return this.referenceList;
    }

    /** {@inheritDoc} */
    public void setReferenceList(ReferenceList newReferenceList) {
        this.referenceList = prepareForAssignment(this.referenceList, newReferenceList);
    }
}

```

```

}

/** {@inheritDoc} */
public CarriedKeyName getCarriedKeyName() {
    return this.carriedKeyName;
}

/** {@inheritDoc} */
public void setCarriedKeyName(CarriedKeyName newCarriedKeyName) {
    this.carriedKeyName = prepareForAssignment(this.carriedKeyName, newCarriedKeyName);
}

/** {@inheritDoc} */
public List<XMLObject> getOrderedChildren() {
    ArrayList<XMLObject> children = new ArrayList<XMLObject>();

    if (super.getOrderedChildren() != null) {
        children.addAll(super.getOrderedChildren());
    }

    if (referenceList != null) {
        children.add(referenceList);
    }

    if (carriedKeyName != null) {
        children.add(carriedKeyName);
    }

    if (children.size() == 0) {
        return null;
    }

    return Collections.unmodifiableList(children);
}

}
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```

```

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*/

package org.opensaml.xml.encryption.impl;

import org.opensaml.xml.encryption.PgenCounter;
import org.opensaml.xml.signature.impl.CryptoBinaryImpl;

/**
 * Concrete implementation of {@link org.opensaml.xml.encryption.PgenCounter}
 */
public class PgenCounterImpl extends CryptoBinaryImpl implements PgenCounter {

    /**
     * Constructor
     *
     * @param namespaceURI
     * @param elementLocalName
     * @param namespacePrefix
     */
    protected PgenCounterImpl(String namespaceURI, String elementLocalName, String namespacePrefix) {
        super(namespaceURI, elementLocalName, namespacePrefix);
    }

}

```

1.1231 xmlunit 1.1

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```

/*
*****

```

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1.1232 xorg-x11-font-utils 7.5 :20.el7

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* AUTHOR

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```
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- libpostproc
- optional x86 optimizations in the files
libavcodec/x86/idct_mmx.c
- the X11 grabber in libavdevice/x11grab.c

There are a handful of files under other licensing terms, namely:

* The files libavcodec/jfdctfst.c, libavcodec/jfdctint_template.c and libavcodec/jrevdct.c are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

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external libraries:

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The current maintainer is Rogrio Brito <rbrito@users.sf.net>.

It was downloaded from the CVS repository at <<http://sf.net/projects/lame>>.

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Xuggler incorporates the openssl library (the Library) into our project.
This package was debianized by Simon Richter <sjr@debian.org> on
Sun, 2 Jan 2005 15:22:58 +0100.

It was downloaded from <http://soft-switch.org/downloads/spandsp/>

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