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1.8 args4j 2.0.12

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1.9 bcprov-jdk16 1.36

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- ActiveMQ
- Airavata
- Ambari
- Ant
- Any23
- APR

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Avro
Axis
Bigtop
Bloodhound
Buildr
BVal
Camel
Cassandra
Cayenne
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Chukwa
Clerezza
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James

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Jena
JMeter
JSPWiki
jUDDI
Kafka
Karaf
Lenya
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OpenOffice
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Pig
Pivot
POI
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Rave
River
Roller
Santuario
ServiceMix
Shindig
Shiro
SIS

Sling
SpamAssassin
Sqoop
Stanbol
STeVe
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Syncope
Tapestry
Tcl
Thrift
Tika
Tiles
Tomcat
TomEE
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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.

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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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1.31 httpclient 4.3.6

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That's all there is to it!

/* Jackson JSON-processor.

*

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1.38 jackson-core-asl 1.9.13

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That's all there is to it!

/* Jackson JSON-processor.

*

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1.39 jackson-mapper-asl 1.9.13

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1.41 jackson-module-afterburner 1.9.4

1.42 javassist 3.15.0-GA

1.42.1 Available under 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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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

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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.

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```
//  
// =====  
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//
```

```
package org.eclipse.jetty.servlet;  
  
import java.io.FileNotFoundException;  
import java.io.IOException;  
import java.io.InputStream;  
import java.io.OutputStream;  
import java.net.MalformedURLException;  
import java.net.URL;  
import java.util.ArrayList;  
import java.util.Enumeration;  
import java.util.List;  
import java.util.Map;
```

```

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.UnavailableException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.eclipse.jetty.http.HttpContent;
import org.eclipse.jetty.http.HttpFields;
import org.eclipse.jetty.http.HttpHeaderValues;
import org.eclipse.jetty.http.HttpHeaders;
import org.eclipse.jetty.http.HttpMethods;
import org.eclipse.jetty.http.MimeTypes;
import org.eclipse.jetty.io.Buffer;
import org.eclipse.jetty.io.ByteArrayBuffer;
import org.eclipse.jetty.io.WriterOutputStream;
import org.eclipse.jetty.server.AbstractHttpConnection;
import org.eclipse.jetty.server.Connector;
import org.eclipse.jetty.server.Dispatcher;
import org.eclipse.jetty.server.HttpOutput;
import org.eclipse.jetty.server.InclusiveByteRange;
import org.eclipse.jetty.server.ResourceCache;
import org.eclipse.jetty.server.Response;
import org.eclipse.jetty.server.handler.ContextHandler;
import org.eclipse.jetty.server.nio.NIOConnector;
import org.eclipse.jetty.server.ssl.SslConnector;
import org.eclipse.jetty.util.IO;
import org.eclipse.jetty.util.MultiPartOutputStream;
import org.eclipse.jetty.util.URIUtil;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
import org.eclipse.jetty.util.resource.FileResource;
import org.eclipse.jetty.util.resource.Resource;
import org.eclipse.jetty.util.resource.ResourceCollection;
import org.eclipse.jetty.util.resource.ResourceFactory;

```

```

/* ----- */

```

```

/** The default servlet.

```

```

* This servlet, normally mapped to /, provides the handling for static
* content, OPTION and TRACE methods for the context.
* The following initParameters are supported, these can be set either
* on the servlet itself or as ServletContext initParameters with a prefix
* of org.eclipse.jetty.servlet.Default. :
* <PRE>

```


* `acceptRanges` If true, range requests and responses are supported

*
*

* `dirAllowed` If true, directory listings are returned if no welcome file is found. Else 403 Forbidden.

*
*

* `welcomeServlets` If true, attempt to dispatch to welcome files that are servlets, but only after no matching static resources could be found. If false, then a welcome file must exist on disk. If "exact", then exact servlet matches are supported without an existing file. Default is true.

*
*

* This must be false if you want directory listings, but have `index.jsp` in your welcome file list.

*
*

* `redirectWelcome` If true, welcome files are redirected rather than forwarded to.

*
*

* `gzip` If set to true, then static content will be served as gzip content encoded if a matching resource is found ending with ".gz"

*
*

* `resourceBase` Set to replace the context resource base

*
*

* `resourceCache` If set, this is a context attribute name, which the servlet will use to look for a shared `ResourceCache` instance.

*
*

* `relativeResourceBase`

* Set with a pathname relative to the base of the servlet context root. Useful for only serving static content out of only specific subdirectories.

*
*

* `pathInfoOnly` If true, only the path info will be applied to the `resourceBase`

*
*

* `stylesheet` Set with the location of an optional stylesheet that will be used to decorate the directory listing html.

*
*

* `aliases` If True, aliases of resources are allowed (eg. symbolic links and caps variations). May bypass security constraints.

*
*

* `maxCacheSize` The maximum total size of the cache or 0 for no cache.

* `maxCachedFileSize` The maximum size of a file to cache

* `maxCachedFiles` The maximum number of files to cache

*
*

* `useFileMappedBuffer`

* If set to true, it will use mapped file buffer to serve static content when using NIO connector. Setting this value to false means that

```

*         a direct buffer will be used instead of a mapped file buffer.
*         By default, this is set to true.
*
* cacheControl    If set, all static content will have this value set as the cache-control
*                 header.
*
*
* </PRE>
*
*
*
*/
public class DefaultServlet extends HttpServlet implements ResourceFactory
{
    private static final Logger LOG = Log.getLogger(DefaultServlet.class);

    private static final long serialVersionUID = 4930458713846881193L;
    private ServletContext _servletContext;
    private ContextHandler _contextHandler;

    private boolean _acceptRanges=true;
    private boolean _dirAllowed=true;
    private boolean _welcomeServlets=false;
    private boolean _welcomeExactServlets=false;
    private boolean _redirectWelcome=false;
    private boolean _gzip=true;
    private boolean _pathInfoOnly=false;

    private Resource _resourceBase;
    private ResourceCache _cache;

    private MimeTypes _mimeTypes;
    private String[] _welcomes;
    private Resource _stylesheet;
    private boolean _useFileMappedBuffer=false;
    private ByteBuffer _cacheControl;
    private String _relativeResourceBase;
    private ServletHandler _servletHandler;
    private ServletHolder _defaultHolder;

    /* ----- */
    @Override
    public void init()
    throws UnavailableException
    {
        _servletContext=getServletContext();

```

```

_contextHandler = initContextHandler(_servletContext);

_mimeTypes = _contextHandler.getMimeTypes();

_welcomes = _contextHandler.getWelcomeFiles();
if (_welcomes==null)
    _welcomes=new String[] {"index.html","index.jsp"};

_acceptRanges=getInitBoolean("acceptRanges",_acceptRanges);
_dirAllowed=getInitBoolean("dirAllowed",_dirAllowed);
_redirectWelcome=getInitBoolean("redirectWelcome",_redirectWelcome);
_gzip=getInitBoolean("gzip",_gzip);
_pathInfoOnly=getInitBoolean("pathInfoOnly",_pathInfoOnly);

if ("exact".equals(getInitParameter("welcomeServlets")))
{
    _welcomeExactServlets=true;
    _welcomeServlets=false;
}
else
    _welcomeServlets=getInitBoolean("welcomeServlets", _welcomeServlets);

if (getInitParameter("aliases")!=null)
    _contextHandler.setAliases(getInitBoolean("aliases",false));

boolean aliases=_contextHandler.isAliases();
if (!aliases && !FileResource.getCheckAliases())
    throw new IllegalStateException("Alias checking disabled");
if (aliases)
    _servletContext.log("Aliases are enabled");

_useFileMappedBuffer=getInitBoolean("useFileMappedBuffer",_useFileMappedBuffer);

_relativeResourceBase = getInitParameter("relativeResourceBase");

String rb=getInitParameter("resourceBase");
if (rb!=null)
{
    if (_relativeResourceBase!=null)
        throw new UnavailableException("resourceBase & relativeResourceBase");
    try{_resourceBase=_contextHandler.newResource(rb);}
    catch (Exception e)
    {
        LOG.warn(Log.EXCEPTION,e);
        throw new UnavailableException(e.toString());
    }
}
}

```

```

String css=getInitParameter("stylesheet");
try
{
    if(css!=null)
    {
        _stylesheet = Resource.newResource(css);
        if(!_stylesheet.exists())
        {
            LOG.warn("!" + css);
            _stylesheet = null;
        }
    }
    if(_stylesheet == null)
    {
        _stylesheet = Resource.newResource(this.getClass().getResource("/jetty-dir.css"));
    }
}
catch(Exception e)
{
    LOG.warn(e.toString());
    LOG.debug(e);
}

String t=getInitParameter("cacheControl");
if (t!=null)
    _cacheControl=new ByteBuffer(t);

String resourceCache = getInitParameter("resourceCache");
int max_cache_size=getInitInt("maxCacheSize", -2);
int max_cached_file_size=getInitInt("maxCachedFileSize", -2);
int max_cached_files=getInitInt("maxCachedFiles", -2);
if (resourceCache!=null)
{
    if (max_cache_size!=-1 || max_cached_file_size!= -2 || max_cached_files!=-2)
        LOG.debug("ignoring resource cache configuration, using resourceCache attribute");
    if (_relativeResourceBase!=null || _resourceBase!=null)
        throw new UnavailableException("resourceCache specified with resource bases");
    _cache=(ResourceCache)_servletContext.getAttribute(resourceCache);

    LOG.debug("Cache {}={}",resourceCache,_cache);
}

try
{
    if (_cache==null && max_cached_files>0)
    {
        _cache= new ResourceCache(null,this,_mimeTypes,_useFileMappedBuffer);
    }
}

```

```

        if (max_cache_size>0)
            _cache.setMaxCacheSize(max_cache_size);
        if (max_cached_file_size>=-1)
            _cache.setMaxCachedFileSize(max_cached_file_size);
        if (max_cached_files>=-1)
            _cache.setMaxCachedFiles(max_cached_files);
    }
}
catch (Exception e)
{
    LOG.warn(Log.EXCEPTION,e);
    throw new UnavailableException(e.toString());
}

_servletHandler= (ServletHandler) _contextHandler.getChildHandlerByClass(ServletHandler.class);
for (ServletHolder h : _servletHandler.getServlets())
    if (h.getServletInstance()==this)
        _defaultHolder=h;

if (LOG.isDebugEnabled())
    LOG.debug("resource base = "+_resourceBase);
}

/**
 * Compute the field _contextHandler.<br/>
 * In the case where the DefaultServlet is deployed on the HttpService it is likely that
 * this method needs to be overwritten to unwrap the ServletContext facade until we reach
 * the original jetty's ContextHandler.
 * @param servletContext The servletContext of this servlet.
 * @return the jetty's ContextHandler for this servletContext.
 */
protected ContextHandler initContextHandler(ServletContext servletContext)
{
    ContextHandler.Context scontext=ContextHandler.getCurrentContext();
    if (scontext==null)
    {
        if (servletContext instanceof ContextHandler.Context)
            return ((ContextHandler.Context)servletContext).getContextHandler();
        else
            throw new IllegalArgumentException("The servletContext " + servletContext + " " +
                servletContext.getClass().getName() + " is not " + ContextHandler.Context.class.getName());
    }
    else
        return ContextHandler.getCurrentContext().getContextHandler();
}

/* ----- */
@Override

```

```

public String getInitParameter(String name)
{
    String value=getServletContext().getInitParameter("org.eclipse.jetty.servlet.Default."+name);
    if (value==null)
        value=super.getInitParameter(name);
    return value;
}

/* ----- */
private boolean getInitBoolean(String name, boolean dft)
{
    String value=getInitParameter(name);
    if (value==null || value.length()==0)
        return dft;
    return (value.startsWith("t")||
            value.startsWith("T")||
            value.startsWith("y")||
            value.startsWith("Y")||
            value.startsWith("1"));
}

/* ----- */
private int getInitInt(String name, int dft)
{
    String value=getInitParameter(name);
    if (value==null)
        value=getInitParameter(name);
    if (value!=null && value.length(>0))
        return Integer.parseInt(value);
    return dft;
}

/* ----- */
/** get Resource to serve.
 * Map a path to a resource. The default implementation calls
 * HttpContext.getResource but derived servlets may provide
 * their own mapping.
 * @param pathInContext The path to find a resource for.
 * @return The resource to serve.
 */
public Resource getResource(String pathInContext)
{
    Resource r=null;
    if (_relativeResourceBase!=null)
        pathInContext=URIUtil.addPaths(_relativeResourceBase,pathInContext);

    try
    {

```

```

    if (_resourceBase!=null)
    {
        r = _resourceBase.addPath(pathInContext);
    }
    else
    {
        URL u = _servletContext.getResource(pathInContext);
        r = _contextHandler.newResource(u);
    }

    if (LOG.isDebugEnabled())
        LOG.debug("Resource "+pathInContext+"="+r);
}
catch (IOException e)
{
    LOG.ignore(e);
}

if((r==null || !r.exists()) && pathInContext.endsWith("/jetty-dir.css"))
    r=_stylesheet;

return r;
}

/* ----- */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
{
    String servletPath=null;
    String pathInfo=null;
    Enumeration<String> reqRanges = null;
    Boolean included =request.getAttribute(Dispatcher.INCLUDE_REQUEST_URI)!=null;
    if (included!=null && included.booleanValue())
    {
        servletPath=(String)request.getAttribute(Dispatcher.INCLUDE_SERVLET_PATH);
        pathInfo=(String)request.getAttribute(Dispatcher.INCLUDE_PATH_INFO);
        if (servletPath==null)
        {
            servletPath=request.getServletPath();
            pathInfo=request.getPathInfo();
        }
    }
    else
    {
        included = Boolean.FALSE;
        servletPath = _pathInfoOnly?"":request.getServletPath();
        pathInfo = request.getPathInfo();
    }
}

```

```

// Is this a Range request?
reqRanges = request.getHeaders(Headers.RANGE);
if (!hasDefinedRange(reqRanges))
    reqRanges = null;
}

String pathInContext=URIUtil.addPaths(servletPath,pathInfo);
boolean endsWithSlash=(pathInfo==null?request.getServletPath():pathInfo).endsWith(URIUtil.SLASH);

// Can we gzip this request?
String pathInContextGz=null;
boolean gzip=false;
if (!included.booleanValue() && !_gzip && reqRanges==null && !endsWithSlash )
{
    // Tell caches that response may vary by accept-encoding
    response.setHeader(Headers.VARY,Headers.ACCEPT_ENCODING);
    // Should we vary this response according to accept-encoding?
    String accept=request.getHeader(Headers.ACCEPT_ENCODING);
    if (accept!=null && accept.indexOf("gzip")>=0)
        gzip=true;
}

// Find the resource and content
Resource resource=null;
HttpContent content=null;

try
{
    // Try gzipped content first
    if (gzip)
    {
        pathInContextGz=pathInContext+".gz";

        if (_cache==null)
        {
            resource=getResource(pathInContextGz);
        }
        else
        {
            content=_cache.lookup(pathInContextGz);
            resource=(content==null)?null:content.getResource();
        }

        if (resource==null || !resource.exists() || resource.isDirectory())
        {
            gzip=false;
            pathInContextGz=null;
        }
    }
}

```



```

    }
}

// find resource
if (!gzip)
{
    if (_cache==null)
        resource=getResource(pathInContext);
    else
    {
        content=_cache.lookup(pathInContext);
        resource=content==null?null:content.getResource();
    }
}

if (LOG.isDebugEnabled())
    LOG.debug("uri="+request.getRequestURI()+" resource="+resource+(content!=null?" content":""));

// Handle resource
if (resource==null || !resource.exists())
{
    if (included)
        throw new FileNotFoundException("!" + pathInContext);
    response.sendError(HttpServletResponse.SC_NOT_FOUND);
}
else if (!resource.isDirectory())
{
    if (endsWithSlash && _contextHandler.isAliases() && pathInContext.length()>1)
    {
        String q=request.getQueryString();
        pathInContext=pathInContext.substring(0,pathInContext.length()-1);
        if (q!=null&&q.length()!>0)
            pathInContext+="?" +q;
        response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(_servletContext.getContextPath(),pathInContext)));
    }
    else
    {
        // ensure we have content
        if (content==null)
            content=new
HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeByExtension(resource.toString()),response.get
BufferSize());

        if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
        {
            if (gzip)
            {

```

```

        response.setHeader(HttpHeaders.CONTENT_ENCODING,"gzip");
        String mt=_servletContext.getMimeType(pathInContext);
        if (mt!=null)
            response.setContentType(mt);
    }
    sendData(request,response,included.booleanValue(),resource,content,reqRanges);
}
}
}
else
{
    String welcome=null;

    if (!endsWithSlash || (pathInContext.length()==1 &&
request.getAttribute("org.eclipse.jetty.server.nullPathInfo")!=null))
    {
        StringBuffer buf=request.getRequestURL();
        synchronized(buf)
        {
            int param=buf.lastIndexOf(";");
            if (param<0)
                buf.append('/');
            else
                buf.insert(param, '/');
            String q=request.getQueryString();
            if (q!=null&&q.length()!=0)
            {
                buf.append('?');
                buf.append(q);
            }
            response.setContentLength(0);
            response.sendRedirect(response.encodeRedirectURL(buf.toString()));
        }
    }
    // else look for a welcome file
    else if (null!=(welcome=getWelcomeFile(pathInContext)))
    {
        LOG.debug("welcome={}",welcome);
        if (_redirectWelcome)
        {
            // Redirect to the index
            response.setContentLength(0);
            String q=request.getQueryString();
            if (q!=null&&q.length()!=0)
                response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(
_servletContext.getContextPath(),welcome)+"?" +q));
            else
                response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(

```

```

_servletContext.getContextPath(),welcome));
    }
    else
    {
        // Forward to the index
        RequestDispatcher dispatcher=request.getRequestDispatcher(welcome);
        if (dispatcher!=null)
        {
            if (included.booleanValue())
                dispatcher.include(request,response);
            else
            {
                request.setAttribute("org.eclipse.jetty.server.welcome",welcome);
                dispatcher.forward(request,response);
            }
        }
    }
}
else
{
    content=new
HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeByExtension(resource.toString()));
    if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
        sendDirectory(request,response,resource,pathInContext);
}
}
}
catch(IllegalArgumentException e)
{
    LOG.warn(Log.EXCEPTION,e);
    if(!response.isCommitted())
        response.sendError(500, e.getMessage());
}
finally
{
    if (content!=null)
        content.release();
    else if (resource!=null)
        resource.release();
}
}

/*-----*/
private boolean hasDefinedRange(Enumeration<String> reqRanges)
{
    return (reqRanges!=null && reqRanges.hasMoreElements());
}
}

```

```

/* ----- */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
{
    doGet(request,response);
}

/* ----- */
/* (non-Javadoc)
 * @see javax.servlet.http.HttpServlet#doTrace(javax.servlet.http.HttpServletRequest,
javax.servlet.http.HttpServletResponse)
 */
@Override
protected void doTrace(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException
{
    resp.sendError(HttpServletResponse.SC_METHOD_NOT_ALLOWED);
}

/* ----- */
@Override
protected void doOptions(HttpServletRequest req, HttpServletResponse resp)
throws ServletException, IOException
{
    resp.setHeader("Allow", "GET,HEAD,POST,OPTIONS");
}

/* ----- */
/**
 * Finds a matching welcome file for the supplied { @link Resource}. This will be the first entry in the list of
 * configured { @link #_welcomes welcome files} that existing within the directory referenced by the
 <code>Resource</code>.
 * If the resource is not a directory, or no matching file is found, then it may look for a valid servlet mapping.
 * If there is none, then <code>null</code> is returned.
 * The list of welcome files is read from the { @link ContextHandler} for this servlet, or
 * <code>"index.jsp" , "index.html"</code> if that is <code>null</code>.
 * @param resource
 * @return The path of the matching welcome file in context or null.
 * @throws IOException
 * @throws MalformedURLException
 */
private String getWelcomeFile(String pathInContext) throws MalformedURLException, IOException
{
    if (_welcomes==null)
        return null;

    String welcome_servlet=null;

```

```

for (int i=0;i<_welcomes.length;i++)
{
    String welcome_in_context=URIUtil.addPaths(pathInContext,_welcomes[i]);
    Resource welcome=getResource(welcome_in_context);
    if (welcome!=null && welcome.exists())
        return _welcomes[i];

    if ((_welcomeServlets || _welcomeExactServlets) && welcome_servlet==null)
    {
        Map.Entry entry=_servletHandler.getHolderEntry(welcome_in_context);
        if (entry!=null && entry.getValue()!=_defaultHolder &&
            (_welcomeServlets || (_welcomeExactServlets && entry.getKey().equals(welcome_in_context))))
            welcome_servlet=welcome_in_context;
    }
}
return welcome_servlet;
}

/* ----- */
/* Check modification date headers.
*/
protected boolean passConditionalHeaders(HttpServletRequest request,HttpServletResponse response, Resource
resource, HttpContent content)
throws IOException
{
    try
    {
        if (!request.getMethod().equals(HttpMethods.HEAD) )
        {
            String ifms=request.getHeader(HttpHeaders.IF_MODIFIED_SINCE);
            if (ifms!=null)
            {
                //Get jetty's Response impl
                Response r = Response.getResponse(response);

                if (content!=null)
                {
                    Buffer mdlm=content.getLastModified();
                    if (mdlm!=null)
                    {
                        if (ifms.equals(mdlm.toString()))
                        {
                            r.reset(true);
                            r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
                            r.flushBuffer();
                            return false;
                        }
                    }
                }
            }
        }
    }
}

```

```

    }
}

long ifmsl=request.getDateHeader(HttpHeaders.IF_MODIFIED_SINCE);
if (ifmsl!=-1)
{
    if (resource.lastModified()/1000 <= ifmsl/1000)
    {
        r.reset(true);
        r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
        r.flushBuffer();
        return false;
    }
}

// Parse the if[un]modified dates and compare to resource
long date=request.getDateHeader(HttpHeaders.IF_UNMODIFIED_SINCE);

if (date!=-1)
{
    if (resource.lastModified()/1000 > date/1000)
    {
        response.sendError(HttpServletResponse.SC_PRECONDITION_FAILED);
        return false;
    }
}

}
}
catch(IllegalArgumentException iae)
{
    if(!response.isCommitted())
        response.sendError(400, iae.getMessage());
    throw iae;
}
return true;
}

/* ----- */
protected void sendDirectory(HttpServletRequest request,
    HttpServletResponse response,
    Resource resource,
    String pathInContext)
throws IOException
{
    if (!_dirAllowed)

```

```

    {
        response.sendError(HttpServletResponse.SC_FORBIDDEN);
        return;
    }

    byte[] data=null;
    String base = URIUtil.addPaths(request.getRequestURI(),URIUtil.SLASH);

    //If the DefaultServlet has a resource base set, use it
    if (_resourceBase != null)
    {
        // handle ResourceCollection
        if (_resourceBase instanceof ResourceCollection)
            resource=_resourceBase.addPath(pathInContext);
    }
    //Otherwise, try using the resource base of its enclosing context handler
    else if (_contextHandler.getBaseResource() instanceof ResourceCollection)
        resource=_contextHandler.getBaseResource().addPath(pathInContext);

    String dir = resource.getListHTML(base,pathInContext.length(>1);
    if (dir==null)
    {
        response.sendError(HttpServletResponse.SC_FORBIDDEN,
            "No directory");
        return;
    }

    data=dir.getBytes("UTF-8");
    response.setContentType("text/html; charset=UTF-8");
    response.setContentLength(data.length);
    response.getOutputStream().write(data);
}

/* ----- */
protected void sendData(HttpServletRequest request,
    HttpServletResponse response,
    boolean include,
    Resource resource,
    HttpContent content,
    Enumeration reqRanges)
throws IOException
{
    boolean direct;
    long content_length;
    if (content==null)
    {
        direct=false;
        content_length=resource.length();
    }

```

```

    }
    else
    {
        Connector connector = AbstractHttpConnection.getCurrentConnection().getConnector();
        direct=connector instanceof NIOConnector && ((NIOConnector)connector).getUseDirectBuffers() &&
!(connector instanceof SslConnector);
        content_length=content.getContentLength();
    }

    // Get the output stream (or writer)
    OutputStream out =null;
    boolean written;
    try
    {
        out = response.getOutputStream();

        // has a filter already written to the response?
        written = out instanceof HttpOutput
            ? ((HttpOutput)out).isWritten()
            : AbstractHttpConnection.getCurrentConnection().getGenerator().isWritten();
    }
    catch(IllegalStateException e)
    {
        out = new WriterOutputStream(response.getWriter());
        written=true; // there may be data in writer buffer, so assume written
    }

    if ( reqRanges == null || !reqRanges.hasMoreElements() || content_length<0)
    {
        // if there were no ranges, send entire entity
        if (include)
        {
            resource.writeTo(out,0,content_length);
        }
        else
        {
            // See if a direct methods can be used?
            if (content!=null && !written && out instanceof HttpOutput)
            {
                if (response instanceof Response)
                {
                    writeOptionHeaders(((Response)response).getHttpFields());
                    ((AbstractHttpConnection.Output)out).sendContent(content);
                }
                else
                {
                    Buffer buffer = direct?content.getDirectBuffer():content.getIndirectBuffer();

```



```

        if (buffer!=null)
        {
            writeHeaders(response,content,content_length);
            ((AbstractHttpConnection.Output)out).sendContent(buffer);
        }
        else
        {
            writeHeaders(response,content,content_length);
            resource.writeTo(out,0,content_length);
        }
    }
}
else
{
    // Write headers normally
    writeHeaders(response,content,written?-1:content_length);

    // Write content normally
    Buffer buffer = (content==null)?null:content.getIndirectBuffer();
    if (buffer!=null)
        buffer.writeTo(out);
    else
        resource.writeTo(out,0,content_length);
}
}
else
{
    // Parse the satisfiable ranges
    List ranges =InclusiveByteRange.satisfiableRanges(reqRanges,content_length);

    // if there are no satisfiable ranges, send 416 response
    if (ranges==null || ranges.size()==0)
    {
        writeHeaders(response, content, content_length);
        response.setStatus(HttpServletResponse.SC_REQUESTED_RANGE_NOT_SATISFIABLE);
        response.setHeader(HttpHeaders.CONTENT_RANGE,
            InclusiveByteRange.to416HeaderRangeString(content_length));
        resource.writeTo(out,0,content_length);
        return;
    }

    // if there is only a single valid range (must be satisfiable
    // since were here now), send that range with a 216 response
    if ( ranges.size()== 1)
    {
        InclusiveByteRange singleSatisfiableRange =
            (InclusiveByteRange)ranges.get(0);
    }
}
}

```

```

    long singleLength = singleSatisfiableRange.getSize(content_length);
    writeHeaders(response,content,singleLength
                );
    response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);
    response.setHeader(HttpHeaders.CONTENT_RANGE,
        singleSatisfiableRange.toHeaderRangeString(content_length));
    resource.writeTo(out,singleSatisfiableRange.getFirst(content_length),singleLength);
    return;
}

// multiple non-overlapping valid ranges cause a multipart
// 216 response which does not require an overall
// content-length header
//
writeHeaders(response,content,-1);
String mimeType=content.getContentType().toString();
MultiPartOutputStream multi = new MultiPartOutputStream(out);
response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);

// If the request has a "Request-Range" header then we need to
// send an old style multipart/x-byteranges Content-Type. This
// keeps Netscape and acrobat happy. This is what Apache does.
String ctp;
if (request.getHeader(HttpHeaders.REQUEST_RANGE)!=null)
    ctp = "multipart/x-byteranges; boundary=";
else
    ctp = "multipart/byteranges; boundary=";
response.setContentType(ctp+multi.getBoundary());

InputStream in=resource.getInputStream();
long pos=0;

// calculate the content-length
int length=0;
String[] header = new String[ranges.size()];
for (int i=0;i<ranges.size();i++)
{
    InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
    header[i]=ibr.toHeaderRangeString(content_length);
    length+=
        ((i>0)?2:0)+
        2+multi.getBoundary().length()+2+
        HttpHeaders.CONTENT_TYPE.length()+2+mimeType.length()+2+
        HttpHeaders.CONTENT_RANGE.length()+2+header[i].length()+2+
        2+
        (ibr.getLast(content_length)-ibr.getFirst(content_length))+1;
}
length+=2+2+multi.getBoundary().length()+2+2;
response.setContentLength(length);

```

```

for (int i=0;i<ranges.size();i++)
{
    InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
    multi.startPart(mimetype,new String[]{HttpHeaders.CONTENT_RANGE+": "+header[i]});

    long start=ibr.getFirst(content_length);
    long size=ibr.getSize(content_length);
    if (in!=null)
    {
        // Handle non cached resource
        if (start<pos)
        {
            in.close();
            in=resource.getInputStream();
            pos=0;
        }
        if (pos<start)
        {
            in.skip(start-pos);
            pos=start;
        }
        IO.copy(in,multi,size);
        pos+=size;
    }
    else
        // Handle cached resource
        (resource).writeTo(multi,start,size);

}
if (in!=null)
    in.close();
multi.close();
}
return;
}

/* ----- */
protected void writeHeaders(HttpServletResponse response,HttpContent content,long count)
throws IOException
{
    if (content.getContentType()!=null && response.getContentType()==null)
        response.setContentType(content.getContentType().toString());

    if (response instanceof Response)
    {
        Response r=(Response)response;
        HttpFields fields = r.getHttpFields();
    }
}

```

```

    if (content.getLastModified()!=null)
        fields.put(HttpHeaders.LAST_MODIFIED_BUFFER,content.getLastModified());
    else if (content.getResource()!=null)
    {
        long lml=content.getResource().lastModified();
        if (lml!=-1)
            fields.putDateField(HttpHeaders.LAST_MODIFIED_BUFFER,lml);
    }

    if (count != -1)
        r.setLongContentLength(count);

    writeOptionHeaders(fields);
}
else
{
    long lml=content.getResource().lastModified();
    if (lml>=0)
        response.setDateHeader(HttpHeaders.LAST_MODIFIED,lml);

    if (count != -1)
    {
        if (count<Integer.MAX_VALUE)
            response.setContentLength((int)count);
        else
            response.setHeader(HttpHeaders.CONTENT_LENGTH,Long.toString(count));
    }

    writeOptionHeaders(response);
}
}

/* ----- */
protected void writeOptionHeaders(HttpFields fields) throws IOException
{
    if (_acceptRanges)
        fields.put(HttpHeaders.ACCEPT_RANGES_BUFFER,HttpHeaderValues.BYTES_BUFFER);

    if (_cacheControl!=null)
        fields.put(HttpHeaders.CACHE_CONTROL_BUFFER,_cacheControl);
}

/* ----- */
protected void writeOptionHeaders(HttpServletResponse response) throws IOException
{
    if (_acceptRanges)
        response.setHeader(HttpHeaders.ACCEPT_RANGES,"bytes");
}

```

```

    if (_cacheControl!=null)
        response.setHeader(HttpHeaders.CACHE_CONTROL,_cacheControl.toString());
}

/*-----*/
/*
 * @see javax.servlet.Servlet#destroy()
 */
@Override
public void destroy()
{
    if (_cache!=null)
        _cache.flushCache();
    super.destroy();
}
}

```

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1.57 joda-time-hibernate 1.4

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1.59 log4j 1.2.17

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1.7.2

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```

```
package org.slf4j;
```

```
import org.slf4j.helpers.BasicMarkerFactory;
import org.slf4j.helpers.Util;
import org.slf4j.impl.StaticMarkerBinder;
```

```

/**
 * MarkerFactory is a utility class producing {@link Marker} instances as
 * appropriate for the logging system currently in use.
 *
 * <p>
 * This class is essentially implemented as a wrapper around an
 * {@link IMarkerFactory} instance bound at compile time.
 *
 * <p>
 * Please note that all methods in this class are static.
 *
 * @author Ceki G&uuml;lc&uuml;l;
 */
public class MarkerFactory {
    static IMarkerFactory markerFactory;

    private MarkerFactory() {
    }

    static {
        try {
            markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
        } catch (NoClassDefFoundError e) {
            markerFactory = new BasicMarkerFactory();
        } catch (Exception e) {
            // we should never get here
            Util.report("Unexpected failure while binding MarkerFactory", e);
        }
    }
}

```

```

/**
 * Return a Marker instance as specified by the name parameter using the
 * previously bound { @link IMarkerFactory }instance.
 *
 * @param name
 *     The name of the { @link Marker } object to return.
 * @return marker
 */
public static Marker getMarker(String name) {
    return markerFactory.getMarker(name);
}

/**
 * Create a marker which is detached (even at birth) from the MarkerFactory.
 *
 * @param name the name of the marker
 * @return a dangling marker
 * @since 1.5.1
 */
public static Marker getDetachedMarker(String name) {
    return markerFactory.getDetachedMarker(name);
}

/**
 * Return the { @link IMarkerFactory }instance in use.
 *
 * <p>The IMarkerFactory instance is usually bound with this class at
 * compile time.
 *
 * @return the IMarkerFactory instance in use
 */
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}
}

```

1.67 Spring Beans 3.2.3.RELEASE

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1.76 spring-context 3.2.1

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 */
```

```
package org.springframework.cache.support;
```

```
import java.util.Collection;
```

```
import org.springframework.cache.Cache;
```

```
/**
 * Simple cache manager working against a given collection of caches.
 * Useful for testing or simple caching declarations.
 *
 * @author Costin Leau
 * @since 3.1
 */
```

```

*/
public class SimpleCacheManager extends AbstractCacheManager {

    private Collection<? extends Cache> caches;

    /**
     * Specify the collection of Cache instances to use for this CacheManager.
     */
    public void setCaches(Collection<? extends Cache> caches) {
        this.caches = caches;
    }

    @Override
    protected Collection<? extends Cache> loadCaches() {
        return this.caches;
    }

}

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 */

package org.springframework.cache.support;

import org.springframework.cache.Cache.ValueWrapper;

/**
 * Straightforward implementation of {@link org.springframework.cache.Cache.ValueWrapper},
 * simply holding the value as given at construction and returning it from {@link #get()}.
 *
 * @author Costin Leau
 * @since 3.1
 */
public class SimpleValueWrapper implements ValueWrapper {

```

```

private final Object value;

/**
 * Create a new SimpleValueWrapper instance for exposing the given value.
 * @param value the value to expose (may be {@code null})
 */
public SimpleValueWrapper(Object value) {
    this.value = value;
}

/**
 * Simply returns the value as given at construction time.
 */
@Override
public Object get() {
    return this.value;
}
}

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 */

package org.springframework.cache.interceptor;

import java.util.Collection;

import org.springframework.cache.Cache;
import org.springframework.cache.CacheManager;

/**
 * A simple {@link CacheResolver} that resolves the {@link Cache} instance(s)
 * based on a configurable {@link CacheManager} and the name of the
 * cache(s) as provided by {@link BasicOperation#getCacheNames() getCacheNames()}

```



```

*
* @author Stephane Nicoll
* @since 4.1
* @see BasicOperation#getCacheNames()
*/
public class SimpleCacheResolver extends AbstractCacheResolver {

    public SimpleCacheResolver() {
    }

    public SimpleCacheResolver(CacheManager cacheManager) {
        super(cacheManager);
    }

    @Override
    protected Collection<String> getCacheNames(CacheOperationInvocationContext<?> context) {
        return context.getOperation().getCacheNames();
    }

}
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*/

package org.springframework.cache.interceptor;

import java.lang.reflect.Method;

/**
* Simple key generator. Returns the parameter itself if a single non-null value
* is given, otherwise returns a {@link SimpleKey} of the parameters.
*
* <p>Unlike {@link DefaultKeyGenerator}, no collisions will occur with the keys
* generated by this class. The returned {@link SimpleKey} object can be safely
* used with a {@link org.springframework.cache.concurrent.ConcurrentMapCache},
* however, might not be suitable for all {@link org.springframework.cache.Cache}

```

```

* implementations.
*
* @author Phillip Webb
* @author Juergen Hoeller
* @since 4.0
* @see SimpleKey
* @see DefaultKeyGenerator
* @see org.springframework.cache.annotation.CachingConfigurer
*/
public class SimpleKeyGenerator implements KeyGenerator {

    @Override
    public Object generate(Object target, Method method, Object... params) {
        return generateKey(params);
    }

    /**
     * Generate a key based on the specified parameters.
     */
    public static Object generateKey(Object... params) {
        if (params.length == 0) {
            return SimpleKey.EMPTY;
        }
        if (params.length == 1) {
            Object param = params[0];
            if (param != null && !param.getClass().isArray()) {
                return param;
            }
        }
        return new SimpleKey(params);
    }

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     */
}

```

```

package org.springframework.cache.interceptor;

import java.io.Serializable;
import java.util.Arrays;

import org.springframework.util.Assert;
import org.springframework.util.StringUtils;

/**
 * A simple key as returned from the {@link SimpleKeyGenerator}.
 *
 * @author Phillip Webb
 * @since 4.0
 * @see SimpleKeyGenerator
 */
@SuppressWarnings("serial")
public class SimpleKey implements Serializable {

    public static final SimpleKey EMPTY = new SimpleKey();

    private final Object[] params;
    private final int hashCode;

    /**
     * Create a new {@link SimpleKey} instance.
     * @param elements the elements of the key
     */
    public SimpleKey(Object... elements) {
        Assert.notNull(elements, "Elements must not be null");
        this.params = new Object[elements.length];
        System.arraycopy(elements, 0, this.params, 0, elements.length);
        this.hashCode = Arrays.deepHashCode(this.params);
    }

    @Override
    public boolean equals(Object obj) {
        return (this == obj || (obj instanceof SimpleKey
            && Arrays.deepEquals(this.params, ((SimpleKey) obj).params)));
    }

    @Override
    public final int hashCode() {
        return hashCode;
    }

    @Override

```

```

public String toString() {
    return getClass().getSimpleName() + " [" + StringUtils.arrayToCommaDelimitedString(this.params) + "];
}

}

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 */

package org.springframework.cache.interceptor;

import org.springframework.cache.Cache;

/**
 * A simple {@link CacheErrorHandler} that does not handle the
 * exception at all, simply throwing it back at the client.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */
public class SimpleCacheErrorHandler implements CacheErrorHandler {

    @Override
    public void handleCacheGetError(RuntimeException exception, Cache cache, Object key) {
        throw exception;
    }

    @Override
    public void handleCachePutError(RuntimeException exception, Cache cache, Object key, Object value) {
        throw exception;
    }

    @Override
    public void handleCacheEvictError(RuntimeException exception, Cache cache, Object key) {
        throw exception;
    }
}

```

```

@Override
public void handleCacheClearError(RuntimeException exception, Cache cache) {
    throw exception;
}
}
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package org.springframework.ejb.access;

import java.lang.reflect.InvocationTargetException;
import java.rmi.RemoteException;

import javax.ejb.CreateException;
import javax.ejb.EJBObject;
import javax.naming.NamingException;

import org.aopalliance.intercept.MethodInvocation;

import org.springframework.beans.factory.DisposableBean;
import org.springframework.remoting.RemoteLookupFailureException;
import org.springframework.remoting.rmi.RmiClientInterceptorUtils;

/**
 * Basic invoker for a remote Stateless Session Bean.
 * Designed for EJB 2.x, but works for EJB 3 Session Beans as well.
 *
 * <p>"Creates" a new EJB instance for each invocation, or caches the session
 * bean instance for all invocations (see { @link #setCacheSessionBean}).
 * See { @link org.springframework.jndi.JndiObjectLocator} for info on
 * how to specify the JNDI location of the target EJB.
 *
 * <p>In a bean container, this class is normally best used as a singleton. However,
 * if that bean container pre-instantiates singletons (as do the XML ApplicationContext

```

```

* variants) you may have a problem if the bean container is loaded before the EJB
* container loads the target EJB. That is because by default the JNDI lookup will be
* performed in the init method of this class and cached, but the EJB will not have been
* bound at the target location yet. The best solution is to set the "lookupHomeOnStartup"
* property to "false", in which case the home will be fetched on first access to the EJB.
* (This flag is only true by default for backwards compatibility reasons).
*
* <p>This invoker is typically used with an RMI business interface, which serves
* as super-interface of the EJB component interface. Alternatively, this invoker
* can also proxy a remote SLSB with a matching non-RMI business interface, i.e. an
* interface that mirrors the EJB business methods but does not declare RemoteExceptions.
* In the latter case, RemoteExceptions thrown by the EJB stub will automatically get
* converted to Spring's unchecked RemoteAccessException.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @since 09.05.2003
* @see org.springframework.remoting.RemoteAccessException
* @see AbstractSlsbInvokerInterceptor#setLookupHomeOnStartup
* @see AbstractSlsbInvokerInterceptor#setCacheHome
* @see AbstractRemoteSlsbInvokerInterceptor#setRefreshHomeOnConnectFailure
*/
public class SimpleRemoteSlsbInvokerInterceptor extends AbstractRemoteSlsbInvokerInterceptor
    implements DisposableBean {

    private boolean cacheSessionBean = false;

    private Object beanInstance;

    private final Object beanInstanceMonitor = new Object();

    /**
     * Set whether to cache the actual session bean object.
     * <p>Off by default for standard EJB compliance. Turn this flag
     * on to optimize session bean access for servers that are
     * known to allow for caching the actual session bean object.
     * @see #setCacheHome
     */
    public void setCacheSessionBean(boolean cacheSessionBean) {
        this.cacheSessionBean = cacheSessionBean;
    }

    /**
     * This implementation "creates" a new EJB instance for each invocation.
     * Can be overridden for custom invocation strategies.
     * <p>Alternatively, override { @link #getSessionBeanInstance } and

```

```

* {@link #releaseSessionBeanInstance} to change EJB instance creation,
* for example to hold a single shared EJB component instance.
*/
@Override
protected Object doInvoke(MethodInvocation invocation) throws Throwable {
    Object ejb = null;
    try {
        ejb = getSessionBeanInstance();
        return RmiClientInterceptorUtils.invokeRemoteMethod(invocation, ejb);
    }
    catch (NamingException ex) {
        throw new RemoteLookupFailureException("Failed to locate remote EJB [" + getJndiName() + "]", ex);
    }
    catch (InvocationTargetException ex) {
        Throwable targetEx = ex.getTargetException();
        if (targetEx instanceof RemoteException) {
            RemoteException rex = (RemoteException) targetEx;
            throw RmiClientInterceptorUtils.convertRmiAccessException(
                invocation.getMethod(), rex, isConnectFailure(rex), getJndiName());
        }
        else if (targetEx instanceof CreateException) {
            throw RmiClientInterceptorUtils.convertRmiAccessException(
                invocation.getMethod(), targetEx, "Could not create remote EJB [" + getJndiName() + "]);
        }
        throw targetEx;
    }
    finally {
        if (ejb instanceof EJBObject) {
            releaseSessionBeanInstance((EJBObject) ejb);
        }
    }
}

/**
 * Return an EJB component instance to delegate the call to.
 * <p>The default implementation delegates to {@link #newSessionBeanInstance}.
 * @return the EJB component instance
 * @throws NamingException if thrown by JNDI
 * @throws InvocationTargetException if thrown by the create method
 * @see #newSessionBeanInstance
 */
protected Object getSessionBeanInstance() throws NamingException, InvocationTargetException {
    if (this.cacheSessionBean) {
        synchronized (this.beanInstanceMonitor) {
            if (this.beanInstance == null) {
                this.beanInstance = newSessionBeanInstance();
            }
            return this.beanInstance;
        }
    }
}

```

```

    }
    }
    else {
        return newSessionBeanInstance();
    }
}

/**
 * Release the given EJB instance.
 * <p>The default implementation delegates to { @link #removeSessionBeanInstance}.
 * @param ejb the EJB component instance to release
 * @see #removeSessionBeanInstance
 */
protected void releaseSessionBeanInstance(EJBObject ejb) {
    if (!this.cacheSessionBean) {
        removeSessionBeanInstance(ejb);
    }
}

/**
 * Reset the cached session bean instance, if necessary.
 */
@Override
protected void refreshHome() throws NamingException {
    super.refreshHome();
    if (this.cacheSessionBean) {
        synchronized (this.beanInstanceMonitor) {
            this.beanInstance = null;
        }
    }
}

/**
 * Remove the cached session bean instance, if necessary.
 */
@Override
public void destroy() {
    if (this.cacheSessionBean) {
        synchronized (this.beanInstanceMonitor) {
            if (this.beanInstance instanceof EJBObject) {
                removeSessionBeanInstance((EJBObject) this.beanInstance);
            }
        }
    }
}
}

```



```

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```

```
package org.springframework.ejb.access;
```

```
import javax.naming.NamingException;
```

```
import org.springframework.aop.framework.ProxyFactory;
import org.springframework.beans.factory.BeanClassLoaderAware;
import org.springframework.beans.factory.FactoryBean;
import org.springframework.util.ClassUtils;
```

```

/**
 * Convenient {@link FactoryBean} for remote SLSB proxies.
 * Designed for EJB 2.x, but works for EJB 3 Session Beans as well.
 *
 * <p>See {@link org.springframework.jndi.JndiObjectLocator} for info on
 * how to specify the JNDI location of the target EJB.
 *
 * <p>If you want control over interceptor chaining, use an AOP ProxyFactoryBean
 * with SimpleRemoteSlsbInvokerInterceptor rather than rely on this class.
 *
 * <p>In a bean container, this class is normally best used as a singleton. However,
 * if that bean container pre-instantiates singletons (as do the XML ApplicationContext
 * variants) you may have a problem if the bean container is loaded before the EJB
 * container loads the target EJB. That is because by default the JNDI lookup will be
 * performed in the init method of this class and cached, but the EJB will not have been
 * bound at the target location yet. The best solution is to set the lookupHomeOnStartup
 * property to false, in which case the home will be fetched on first access to the EJB.
 * (This flag is only true by default for backwards compatibility reasons).
 *
 * <p>This proxy factory is typically used with an RMI business interface, which serves
 * as super-interface of the EJB component interface. Alternatively, this factory
 * can also proxy a remote SLSB with a matching non-RMI business interface, i.e. an
 * interface that mirrors the EJB business methods but does not declare RemoteExceptions.

```

```

* In the latter case, RemoteExceptions thrown by the EJB stub will automatically get
* converted to Spring's unchecked RemoteAccessException.
*
* @author Rod Johnson
* @author Colin Sampaleanu
* @author Juergen Hoeller
* @since 09.05.2003
* @see org.springframework.remoting.RemoteAccessException
* @see AbstractSlsbInvokerInterceptor#setLookupHomeOnStartup
* @see AbstractSlsbInvokerInterceptor#setCacheHome
* @see AbstractRemoteSlsbInvokerInterceptor#setRefreshHomeOnConnectFailure
*/

```

```

public class SimpleRemoteStatelessSessionProxyFactoryBean extends SimpleRemoteSlsbInvokerInterceptor
implements FactoryBean<Object>, BeanClassLoaderAware {

```

```

/** The business interface of the EJB we're proxying */

```

```

private Class<?> businessInterface;

```

```

private ClassLoader beanClassLoader = ClassUtils.getDefaultClassLoader();

```

```

/** EJBOject */

```

```

private Object proxy;

```

```

/**

```

```

* Set the business interface of the EJB we're proxying.
* This will normally be a super-interface of the EJB remote component interface.
* Using a business methods interface is a best practice when implementing EJBs.
* <p>You can also specify a matching non-RMI business interface, i.e. an interface
* that mirrors the EJB business methods but does not declare RemoteExceptions.
* In this case, RemoteExceptions thrown by the EJB stub will automatically get
* converted to Spring's generic RemoteAccessException.
* @param businessInterface the business interface of the EJB
*/

```

```

public void setBusinessInterface(Class<?> businessInterface) {
    this.businessInterface = businessInterface;
}

```

```

/**

```

```

* Return the business interface of the EJB we're proxying.
*/

```

```

public Class<?> getBusinessInterface() {
    return this.businessInterface;
}

```

```

@Override

```

```

public void setBeanClassLoader(ClassLoader classLoader) {
    this.beanClassLoader = classLoader;
}

```

```

}

@Override
public void afterPropertiesSet() throws NamingException {
    super.afterPropertiesSet();
    if (this.businessInterface == null) {
        throw new IllegalArgumentException("businessInterface is required");
    }
    this.proxy = new ProxyFactory(this.businessInterface, this).getProxy(this.beanClassLoader);
}

@Override
public Object getObject() {
    return this.proxy;
}

@Override
public Class<?> getObjectType() {
    return this.businessInterface;
}

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

}
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 * limitations under the License.
 */

package org.springframework.context;

/**
 * Interface that encapsulates event publication functionality.

```

```

* Serves as super-interface for ApplicationContext.
*
* @author Juergen Hoeller
* @since 1.1.1
* @see ApplicationContext
* @see ApplicationEventPublisherAware
* @see org.springframework.context.ApplicationEvent
* @see org.springframework.context.event.EventPublicationInterceptor
*/
public interface ApplicationEventPublisher {

    /**
     * Notify all listeners registered with this application of an application
     * event. Events may be framework events (such as RequestHandledEvent)
     * or application-specific events.
     * @param event the event to publish
     * @see org.springframework.web.context.support.RequestHandledEvent
     */
    void publishEvent(ApplicationEvent event);

}

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 * limitations under the License.
 */

package org.springframework.context;

import java.util.EventListener;

/**
 * Interface to be implemented by application event listeners.
 * Based on the standard {@code java.util.EventListener} interface
 * for the Observer design pattern.
 *
 * 

As of Spring 3.0, an ApplicationListener can generically declare the event type
 * that it is interested in. When registered with a Spring ApplicationContext, events


```

```

* will be filtered accordingly, with the listener getting invoked for matching event
* objects only.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @param <E> the specific ApplicationEvent subclass to listen to
* @see org.springframework.context.event.ApplicationEventMulticaster
*/
public interface ApplicationListener<E extends ApplicationEvent> extends EventListener {

    /**
     * Handle an application event.
     * @param event the event to respond to
     */
    void onApplicationEvent(E event);

}

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 * limitations under the License.
 */

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>

```

- * Bean factory methods for accessing application components.
- * Inherited from { @link org.springframework.beans.factory.ListableBeanFactory }.
- * The ability to load file resources in a generic fashion.
- * Inherited from the { @link org.springframework.core.io.ResourceLoader } interface.
- * The ability to publish events to registered listeners.
- * Inherited from the { @link ApplicationEventPublisher } interface.
- * The ability to resolve messages, supporting internationalization.
- * Inherited from the { @link MessageSource } interface.
- * 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.

*

*

* <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 } if none
 */

String getId();

/**

* Return a name for the deployed application that this context belongs to.
 * @return a name for the deployed application, or the empty String by default
 */

String getApplicationName();

/**

* Return a friendly name for this context.
 * @return a display name for this context (never { @code null })
 */

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 } if there is no parent
* and this is the root of the context hierarchy.
* @return the parent context, or { @code null } 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() } 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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 * limitations under the License.
 */

package org.springframework.context;

import java.io.Closeable;

import org.springframework.beans.BeansException;
import org.springframework.beans.factory.config.BeanFactoryPostProcessor;
import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;

```



```

import org.springframework.core.env.ConfigurableEnvironment;
import org.springframework.core.env.Environment;

/**
 * SPI interface to be implemented by most if not all application contexts.
 * Provides facilities to configure an application context in addition
 * to the application context client methods in the
 * { @link org.springframework.context.ApplicationContext } interface.
 *
 * <p>Configuration and lifecycle methods are encapsulated here to avoid
 * making them obvious to ApplicationContext client code. The present
 * methods should only be used by startup and shutdown code.
 *
 * @author Juergen Hoeller
 * @author Chris Beams
 * @since 03.11.2003
 */
public interface ConfigurableApplicationContext extends ApplicationContext, Lifecycle, Closeable {

    /**
     * Any number of these characters are considered delimiters between
     * multiple context config paths in a single String value.
     * @see org.springframework.context.support.AbstractXmlApplicationContext#setConfigLocation
     * @see org.springframework.web.context.ContextLoader#CONFIG_LOCATION_PARAM
     * @see org.springframework.web.servlet.FrameworkServlet#setContextConfigLocation
     */
    String CONFIG_LOCATION_DELIMITERS = ",;\t\n";

    /**
     * Name of the ConversionService bean in the factory.
     * If none is supplied, default conversion rules apply.
     * @see org.springframework.core.convert.ConversionService
     */
    String CONVERSION_SERVICE_BEAN_NAME = "conversionService";

    /**
     * Name of the LoadTimeWeaver bean in the factory. If such a bean is supplied,
     * the context will use a temporary ClassLoader for type matching, in order
     * to allow the LoadTimeWeaver to process all actual bean classes.
     * @see org.springframework.instrument.classloading.LoadTimeWeaver
     */
    String LOAD_TIME_WEAVER_BEAN_NAME = "loadTimeWeaver";

    /**
     * Name of the { @link Environment } bean in the factory.
     */
    String ENVIRONMENT_BEAN_NAME = "environment";

```

```

/**
 * Name of the System properties bean in the factory.
 * @see java.lang.System#getProperties()
 */
String SYSTEM_PROPERTIES_BEAN_NAME = "systemProperties";

/**
 * Name of the System environment bean in the factory.
 * @see java.lang.System#getenv()
 */
String SYSTEM_ENVIRONMENT_BEAN_NAME = "systemEnvironment";

/**
 * Set the unique id of this application context.
 */
void setId(String id);

/**
 * Set the parent of this application context.
 * <p>Note that the parent shouldn't be changed: It should only be set outside
 * a constructor if it isn't available when an object of this class is created,
 * for example in case of WebApplicationContext setup.
 * @param parent the parent context
 * @see org.springframework.web.context.ConfigurableWebApplicationContext
 */
void setParent(ApplicationContext parent);

/**
 * Return the Environment for this application context in configurable form.
 */
@Override
ConfigurableEnvironment getEnvironment();

/**
 * Set the {@code Environment} for this application context.
 * @param environment the new environment
 */
void setEnvironment(ConfigurableEnvironment environment);

/**
 * Add a new BeanFactoryPostProcessor that will get applied to the internal
 * bean factory of this application context on refresh, before any of the
 * bean definitions get evaluated. To be invoked during context configuration.
 * @param beanFactoryPostProcessor the factory processor to register
 */
void addBeanFactoryPostProcessor(BeanFactoryPostProcessor beanFactoryPostProcessor);

```

```

/**
 * Add a new ApplicationListener that will be notified on context events
 * such as context refresh and context shutdown.
 * <p>Note that any ApplicationListener registered here will be applied
 * on refresh if the context is not active yet, or on the fly with the
 * current event multicaster in case of a context that is already active.
 * @param listener the ApplicationListener to register
 * @see org.springframework.context.event.ContextRefreshedEvent
 * @see org.springframework.context.event.ContextClosedEvent
 */
void addApplicationListener(ApplicationListener<?> listener);

/**
 * Load or refresh the persistent representation of the configuration,
 * which might an XML file, properties file, or relational database schema.
 * <p>As this is a startup method, it should destroy already created singletons
 * if it fails, to avoid dangling resources. In other words, after invocation
 * of that method, either all or no singletons at all should be instantiated.
 * @throws BeansException if the bean factory could not be initialized
 * @throws IllegalStateException if already initialized and multiple refresh
 * attempts are not supported
 */
void refresh() throws BeansException, IllegalStateException;

/**
 * Register a shutdown hook with the JVM runtime, closing this context
 * on JVM shutdown unless it has already been closed at that time.
 * <p>This method can be called multiple times. Only one shutdown hook
 * (at max) will be registered for each context instance.
 * @see java.lang.Runtime#addShutdownHook
 * @see #close()
 */
void registerShutdownHook();

/**
 * Close this application context, releasing all resources and locks that the
 * implementation might hold. This includes destroying all cached singleton beans.
 * <p>Note: Does <i>not</i> invoke { @code close } on a parent context;
 * parent contexts have their own, independent lifecycle.
 * <p>This method can be called multiple times without side effects: Subsequent
 * { @code close } calls on an already closed context will be ignored.
 */
@Override
void close();

/**
 * Determine whether this application context is active, that is,
 * whether it has been refreshed at least once and has not been closed yet.

```

```

* @return whether the context is still active
* @see #refresh()
* @see #close()
* @see #getBeanFactory()
*/
boolean isActive();

/**
* Return the internal bean factory of this application context.
* Can be used to access specific functionality of the underlying factory.
* <p>Note: Do not use this to post-process the bean factory; singletons
* will already have been instantiated before. Use a BeanFactoryPostProcessor
* to intercept the BeanFactory setup process before beans get touched.
* <p>Generally, this internal factory will only be accessible while the context
* is active, that is, inbetween { @link #refresh()} and { @link #close()}.
* The { @link #isActive()} flag can be used to check whether the context
* is in an appropriate state.
* @return the underlying bean factory
* @throws IllegalStateException if the context does not hold an internal
* bean factory (usually if { @link #refresh()} hasn't been called yet or
* if { @link #close()} has already been called)
* @see #isActive()
* @see #refresh()
* @see #close()
* @see #addBeanFactoryPostProcessor
*/
ConfigurableListableBeanFactory getBeanFactory() throws IllegalStateException;

}
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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})
     */
    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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```

```

* limitations under the License.
*/

package org.springframework.context;

/**
 * Callback interface for initializing a Spring {@link ConfigurableApplicationContext}
 * prior to being {@link 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 {@link 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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```

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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
```

```
 */
```

```
 @SuppressWarnings("serial")
```

```
 public class ApplicationContextException extends FatalBeanException {
```

```
 /**
```

```
  * Create a new { @code ApplicationContextException }
```

```
  * 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 }
```

```
  * 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;
```

```
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 { @code 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.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.beans.factory.support.DefaultListableBeanFactory;
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 implements
AnnotationConfigRegistry {

    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 with the given DefaultListableBeanFactory.
     * @param beanFactory the DefaultListableBeanFactory instance to use for this context
     */
    public AnnotationConfigApplicationContext(DefaultListableBeanFactory beanFactory) {
        super(beanFactory);
        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();
}

/**
 * {@link @inheritDoc}
 * <p>Delegates given environment to underlying {@link AnnotatedBeanDefinitionReader}
 * and {@link ClassPathBeanDefinitionScanner} members.
 */
@Override
public void setEnvironment(ConfigurableEnvironment environment) {
    super.setEnvironment(environment);
    this.reader.setEnvironment(environment);
    this.scanner.setEnvironment(environment);
}

/**
 * Provide a custom {@link BeanNameGenerator} for use with {@link AnnotatedBeanDefinitionReader}
 * and/or {@link ClassPathBeanDefinitionScanner}, if any.
 * <p>Default is {@link org.springframework.context.annotation.AnnotationBeanNameGenerator}.
 * <p>Any call to this method must occur prior to calls to {@link #register(Class...)}
 * and/or {@link #scan(String...)}.
 * @see AnnotatedBeanDefinitionReader#setBeanNameGenerator
 * @see ClassPathBeanDefinitionScanner#setBeanNameGenerator
 */
public void setBeanNameGenerator(BeanNameGenerator beanNameGenerator) {
    this.reader.setBeanNameGenerator(beanNameGenerator);
    this.scanner.setBeanNameGenerator(beanNameGenerator);
    getBeanFactory().registerSingleton(
        AnnotationConfigUtils.CONFIGURATION_BEAN_NAME_GENERATOR, beanNameGenerator);
}

/**
 * Set the {@link ScopeMetadataResolver} to use for detected bean classes.
 * <p>The default is an {@link AnnotationScopeMetadataResolver}.
 * <p>Any call to this method must occur prior to calls to {@link #register(Class...)}
 * and/or {@link #scan(String...)}.
 */
public void setScopeMetadataResolver(ScopeMetadataResolver scopeMetadataResolver) {
    this.reader.setScopeMetadataResolver(scopeMetadataResolver);
    this.scanner.setScopeMetadataResolver(scopeMetadataResolver);
}

/**
 * Register one or more annotated classes to be processed.
 * <p>Note that {@link #refresh()} must be called in order for the context
 * to fully process the new classes.

```

```

* @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.
* <p>Note that { @link #refresh() } must be called in order for the context
* to fully process the new classes.
* @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);
}

@Override
protected void prepareRefresh() {
    this.scanner.clearCache();
    super.prepareRefresh();
}

}
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* limitations under the License.
*/

package org.springframework.context.i18n;

```

```

import java.util.Locale;

/**
 * Simple implementation of the {@link LocaleContext} interface,
 * always returning a specified {@code Locale}.
 *
 * @author Juergen Hoeller
 * @since 1.2
 * @see LocaleContextHolder#setLocaleContext
 * @see LocaleContextHolder#getLocale()
 * @see SimpleTimeZoneAwareLocaleContext
 */
public class SimpleLocaleContext implements LocaleContext {

    private final Locale locale;

    /**
     * Create a new SimpleLocaleContext that exposes the specified Locale.
     * Every {@link #getLocale()} call will return this Locale.
     * @param locale the Locale to expose
     */
    public SimpleLocaleContext(Locale locale) {
        this.locale = locale;
    }

    @Override
    public Locale getLocale() {
        return this.locale;
    }

    @Override
    public String toString() {
        return (this.locale != null ? this.locale.toString() : "-");
    }

}

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* limitations under the License.  
*/
```

```
package org.springframework.context.i18n;
```

```
import java.util.Locale;  
import java.util.TimeZone;
```

```
/**
```

```
* Simple implementation of the { @link TimeZoneAwareLocaleContext } interface,  
* always returning a specified { @code Locale } and { @code TimeZone }.
```

```
*
```

```
* <p>Note: Prefer the use of { @link SimpleLocaleContext } when only setting  
* a Locale but no TimeZone.
```

```
*
```

```
* @author Juergen Hoeller
```

```
* @author Nicholas Williams
```

```
* @since 4.0
```

```
* @see LocaleContextHolder#setLocaleContext
```

```
* @see LocaleContextHolder#getTimeZone()
```

```
*/
```

```
public class SimpleTimeZoneAwareLocaleContext extends SimpleLocaleContext implements  
TimeZoneAwareLocaleContext {
```

```
    private final TimeZone timeZone;
```

```
/**
```

```
* Create a new SimpleTimeZoneAwareLocaleContext that exposes the specified  
* Locale and TimeZone. Every { @link #getLocale() } call will return the given  
* Locale, and every { @link #getTimeZone() } call will return the given TimeZone.  
* @param locale the Locale to expose  
* @param timeZone the TimeZone to expose
```

```
*/
```

```
public SimpleTimeZoneAwareLocaleContext(Locale locale, TimeZone timeZone) {  
    super(locale);  
    this.timeZone = timeZone;  
}
```

```
public TimeZone getTimeZone() {  
    return this.timeZone;  
}
```

```
@Override
```

```

public String toString() {
    return super.toString() + " " + (this.timeZone != null ? this.timeZone.toString() : "-");
}

}

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 * limitations under the License.
 */

package org.springframework.context.event;

import org.springframework.aop.support.AopUtils;
import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationListener;
import org.springframework.core.GenericTypeResolver;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;

/**
 * {@link SmartApplicationListener} adapter that determines supported event types
 * through introspecting the generically declared type of the target listener.
 *
 * @author Juergen Hoeller
 * @since 3.0
 * @see org.springframework.context.ApplicationListener#onApplicationEvent
 */
public class GenericApplicationListenerAdapter implements SmartApplicationListener {

    private final ApplicationListener<ApplicationEvent> delegate;

    /**
     * Create a new GenericApplicationListener for the given delegate.
     * @param delegate the delegate listener to be invoked
     */
    @SuppressWarnings("unchecked")

```



```

public GenericApplicationListenerAdapter(ApplicationListener<?> delegate) {
    Assert.notNull(delegate, "Delegate listener must not be null");
    this.delegate = (ApplicationListener<ApplicationEvent>) delegate;
}

@Override
public void onApplicationEvent(ApplicationEvent event) {
    this.delegate.onApplicationEvent(event);
}

@Override
public boolean supportsEventType(Class<? extends ApplicationEvent> eventType) {
    Class<?> declaredEventType = resolveDeclaredEventType(this.delegate.getClass());
    if (declaredEventType == null || declaredEventType.equals(ApplicationEvent.class)) {
        Class<?> targetClass = AopUtils.getTargetClass(this.delegate);
        if (targetClass != this.delegate.getClass()) {
            declaredEventType = resolveDeclaredEventType(targetClass);
        }
    }
    return (declaredEventType == null || declaredEventType.isAssignableFrom(eventType));
}

@Override
public boolean supportsSourceType(Class<?> sourceType) {
    return true;
}

@Override
public int getOrder() {
    return (this.delegate instanceof Ordered ? ((Ordered) this.delegate).getOrder() :
Ordered.LOWEST_PRECEDENCE);
}

static Class<?> resolveDeclaredEventType(Class<?> listenerType) {
    return GenericTypeResolver.resolveTypeArgument(listenerType, ApplicationListener.class);
}

}
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* limitations under the License.
*/
```

```
package org.springframework.context.event;
```

```
import java.util.Collection;
import java.util.LinkedHashSet;
import java.util.LinkedList;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;
```

```
import org.springframework.beans.factory.BeanClassLoaderAware;
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.BeanFactoryAware;
import org.springframework.beans.factory.NoSuchBeanDefinitionException;
import org.springframework.beans.factory.config.ConfigurableBeanFactory;
import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationListener;
import org.springframework.core.OrderComparator;
import org.springframework.util.ClassUtils;
import org.springframework.util.ObjectUtils;
```

```
/**
 * Abstract implementation of the {@link ApplicationEventMulticaster} interface,
 * providing the basic listener registration facility.
 *
 * <p>Doesn't permit multiple instances of the same listener by default,
 * as it keeps listeners in a linked Set. The collection class used to hold
 * ApplicationListener objects can be overridden through the "collectionClass"
 * bean property.
 *
 * <p>Implementing ApplicationEventMulticaster's actual {@link #multicastEvent} method
 * is left to subclasses. {@link SimpleApplicationEventMulticaster} simply multicasts
 * all events to all registered listeners, invoking them in the calling thread.
 * Alternative implementations could be more sophisticated in those respects.
 *
 * @author Juergen Hoeller
 * @since 1.2.3
 * @see #getApplicationListeners(ApplicationEvent)
 * @see SimpleApplicationEventMulticaster
 */
public abstract class AbstractApplicationEventMulticaster
```

```

implements ApplicationEventMulticaster, BeanClassLoaderAware, BeanFactoryAware {

private final ListenerRetriever defaultRetriever = new ListenerRetriever(false);

private final Map<ListenerCacheKey, ListenerRetriever> retrieverCache =
    new ConcurrentHashMap<ListenerCacheKey, ListenerRetriever>(64);

private ClassLoader beanClassLoader;

private BeanFactory beanFactory;

@Override
public void addApplicationListener(ApplicationListener<?> listener) {
    synchronized (this.defaultRetriever) {
        this.defaultRetriever.applicationListeners.add(listener);
        this.retrieverCache.clear();
    }
}

@Override
public void addApplicationListenerBean(String listenerBeanName) {
    synchronized (this.defaultRetriever) {
        this.defaultRetriever.applicationListenerBeans.add(listenerBeanName);
        this.retrieverCache.clear();
    }
}

@Override
public void removeApplicationListener(ApplicationListener<?> listener) {
    synchronized (this.defaultRetriever) {
        this.defaultRetriever.applicationListeners.remove(listener);
        this.retrieverCache.clear();
    }
}

@Override
public void removeApplicationListenerBean(String listenerBeanName) {
    synchronized (this.defaultRetriever) {
        this.defaultRetriever.applicationListenerBeans.remove(listenerBeanName);
        this.retrieverCache.clear();
    }
}

@Override
public void removeAllListeners() {
    synchronized (this.defaultRetriever) {
        this.defaultRetriever.applicationListeners.clear();
    }
}

```

```

    this.defaultRetriever.applicationListenerBeans.clear();
    this.retrieverCache.clear();
}
}

@Override
public void setBeanClassLoader(ClassLoader classLoader) {
    this.beanClassLoader = classLoader;
}

@Override
public void setBeanFactory(BeanFactory beanFactory) {
    this.beanFactory = beanFactory;
    if (this.beanClassLoader == null && beanFactory instanceof ConfigurableBeanFactory) {
        this.beanClassLoader = ((ConfigurableBeanFactory) beanFactory).getBeanClassLoader();
    }
}

private BeanFactory getBeanFactory() {
    if (this.beanFactory == null) {
        throw new IllegalStateException("ApplicationEventMulticaster cannot retrieve listener beans " +
            "because it is not associated with a BeanFactory");
    }
    return this.beanFactory;
}

/**
 * Return a Collection containing all ApplicationListeners.
 * @return a Collection of ApplicationListeners
 * @see org.springframework.context.ApplicationListener
 */
protected Collection<ApplicationListener<?>> getApplicationListeners() {
    synchronized (this.defaultRetriever) {
        return this.defaultRetriever.getApplicationListeners();
    }
}

/**
 * Return a Collection of ApplicationListeners matching the given
 * event type. Non-matching listeners get excluded early.
 * @param event the event to be propagated. Allows for excluding
 * non-matching listeners early, based on cached matching information.
 * @return a Collection of ApplicationListeners
 * @see org.springframework.context.ApplicationListener
 */
protected Collection<ApplicationListener<?>> getApplicationListeners(ApplicationEvent event) {
    Class<? extends ApplicationEvent> eventType = event.getClass();

```

```

Object source = event.getSource();
Class<?> sourceType = (source != null ? source.getClass() : null);
ListenerCacheKey cacheKey = new ListenerCacheKey(eventType, sourceType);
ListenerRetriever retriever = this.retrieverCache.get(cacheKey);
if (retriever != null) {
    return retriever.getApplicationListeners();
}
else {
    retriever = new ListenerRetriever(true);
    LinkedList<ApplicationListener<?>> allListeners = new LinkedList<ApplicationListener<?>>();
    Set<ApplicationListener<?>> listeners;
    Set<String> listenerBeans;
    synchronized (this.defaultRetriever) {
        listeners = new LinkedHashSet<ApplicationListener<?>>(this.defaultRetriever.applicationListeners);
        listenerBeans = new LinkedHashSet<String>(this.defaultRetriever.applicationListenerBeans);
    }
    for (ApplicationListener<?> listener : listeners) {
        if (supportsEvent(listener, eventType, sourceType)) {
            retriever.applicationListeners.add(listener);
            allListeners.add(listener);
        }
    }
    if (!listenerBeans.isEmpty()) {
        BeanFactory beanFactory = getBeanFactory();
        for (String listenerBeanName : listenerBeans) {
            try {
                Class<?> listenerType = beanFactory.getType(listenerBeanName);
                if (listenerType == null || supportsEvent(listenerType, event)) {
                    ApplicationListener<?> listener =
                        beanFactory.getBean(listenerBeanName, ApplicationListener.class);
                    if (!allListeners.contains(listener) && supportsEvent(listener, eventType, sourceType)) {
                        retriever.applicationListenerBeans.add(listenerBeanName);
                        allListeners.add(listener);
                    }
                }
            }
            catch (NoSuchBeanDefinitionException ex) {
                // Singleton listener instance (without backing bean definition) disappeared -
                // probably in the middle of the destruction phase
            }
        }
    }
    OrderComparator.sort(allListeners);
    if (this.beanClassLoader == null ||
        (ClassUtils.isCacheSafe(eventType, this.beanClassLoader) &&
         (sourceType == null || ClassUtils.isCacheSafe(sourceType, this.beanClassLoader)))) {
        this.retrieverCache.put(cacheKey, retriever);
    }
}

```

```

return allListeners;
}
}

/**
 * Filter a listener early through checking its generically declared event
 * type before trying to instantiate it.
 * <p>If this method returns { @code true } for a given listener as a first pass,
 * the listener instance will get retrieved and fully evaluated through a
 * { @link #supportsEvent(ApplicationListener, Class, Class)} call afterwards.
 * @param listenerType the listener's type as determined by the BeanFactory
 * @param event the event to check
 * @return whether the given listener should be included in the candidates
 * for the given event type
 */
protected boolean supportsEvent(Class<?> listenerType, ApplicationEvent event) {
    if (SmartApplicationListener.class.isAssignableFrom(listenerType)) {
        return true;
    }
    Class<?> declaredEventType = GenericApplicationListenerAdapter.resolveDeclaredEventType(listenerType);
    return (declaredEventType == null || declaredEventType.isInstance(event));
}

/**
 * Determine whether the given listener supports the given event.
 * <p>The default implementation detects the { @link SmartApplicationListener}
 * interface. In case of a standard { @link ApplicationListener}, a
 * { @link GenericApplicationListenerAdapter} will be used to introspect
 * the generically declared type of the target listener.
 * @param listener the target listener to check
 * @param eventType the event type to check against
 * @param sourceType the source type to check against
 * @return whether the given listener should be included in the candidates
 * for the given event type
 */
protected boolean supportsEvent(ApplicationListener<?> listener,
    Class<? extends ApplicationEvent> eventType, Class<?> sourceType) {

    SmartApplicationListener smartListener = (listener instanceof SmartApplicationListener ?
        (SmartApplicationListener) listener : new GenericApplicationListenerAdapter(listener));
    return (smartListener.supportsEventType(eventType) && smartListener.supportsSourceType(sourceType));
}

/**
 * Cache key for ListenerRetrievers, based on event type and source type.
 */
private static class ListenerCacheKey {

```

```

private final Class<?> eventType;

private final Class<?> sourceType;

public ListenerCacheKey(Class<?> eventType, Class<?> sourceType) {
    this.eventType = eventType;
    this.sourceType = sourceType;
}

@Override
public boolean equals(Object other) {
    if (this == other) {
        return true;
    }
    ListenerCacheKey otherKey = (ListenerCacheKey) other;
    return ObjectUtils.nullSafeEquals(this.eventType, otherKey.eventType) &&
        ObjectUtils.nullSafeEquals(this.sourceType, otherKey.sourceType);
}

@Override
public int hashCode() {
    return ObjectUtils.nullSafeHashCode(this.eventType) * 29 + ObjectUtils.nullSafeHashCode(this.sourceType);
}
}

/**
 * Helper class that encapsulates a specific set of target listeners,
 * allowing for efficient retrieval of pre-filtered listeners.
 * <p>An instance of this helper gets cached per event type and source type.
 */
private class ListenerRetriever {

    public final Set<ApplicationListener<?>> applicationListeners;

    public final Set<String> applicationListenerBeans;

    private final boolean preFiltered;

    public ListenerRetriever(boolean preFiltered) {
        this.applicationListeners = new LinkedHashSet<ApplicationListener<?>>();
        this.applicationListenerBeans = new LinkedHashSet<String>();
        this.preFiltered = preFiltered;
    }

    public Collection<ApplicationListener<?>> getApplicationListeners() {
        LinkedList<ApplicationListener<?>> allListeners = new LinkedList<ApplicationListener<?>>();

```

```

for (ApplicationListener<?> listener : this.applicationListeners) {
    allListeners.add(listener);
}
if (!this.applicationListenerBeans.isEmpty()) {
    BeanFactory beanFactory = getBeanFactory();
    for (String listenerBeanName : this.applicationListenerBeans) {
        try {
            ApplicationListener<?> listener = beanFactory.getBean(listenerBeanName, ApplicationListener.class);
            if (this.preFiltered || !allListeners.contains(listener)) {
                allListeners.add(listener);
            }
        }
        catch (NoSuchBeanDefinitionException ex) {
            // Singleton listener instance (without backing bean definition) disappeared -
            // probably in the middle of the destruction phase
        }
    }
    OrderComparator.sort(allListeners);
    return allListeners;
}
}

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 * limitations under the License.
 */

package org.springframework.context.event;

import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationListener;
import org.springframework.core.Ordered;

/**
 * Extended variant of the standard {@link ApplicationListener} interface,

```



```

* exposing further metadata such as the supported event type.
*
* @author Juergen Hoeller
* @since 3.0
*/
public interface SmartApplicationListener extends ApplicationListener<ApplicationEvent>, Ordered {

/**
 * Determine whether this listener actually supports the given event type.
 */
boolean supportsEventType(Class<? extends ApplicationEvent> eventType);

/**
 * Determine whether this listener actually supports the given source type.
 */
boolean supportsSourceType(Class<?> sourceType);

}
/*
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 */

package org.springframework.context.event;

import java.util.concurrent.Executor;

import org.springframework.beans.factory.BeanFactory;
import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationListener;
import org.springframework.util.ErrorHandler;

/**
 * Simple implementation of the { @link ApplicationEventMulticaster } interface.
 *
 * <p>Multicasts all events to all registered listeners, leaving it up to
 * the listeners to ignore events that they are not interested in.

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```

* Listeners will usually perform corresponding { @code instanceof}
* checks on the passed-in event object.
*
* <p>By default, all listeners are invoked in the calling thread.
* This allows the danger of a rogue listener blocking the entire application,
* but adds minimal overhead. Specify an alternative task executor to have
* listeners executed in different threads, for example from a thread pool.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see #setTaskExecutor
*/
public class SimpleApplicationEventMulticaster extends AbstractApplicationEventMulticaster {

    private Executor taskExecutor;

    private ErrorHandler errorHandler;

    /**
     * Create a new SimpleApplicationEventMulticaster.
     */
    public SimpleApplicationEventMulticaster() {
    }

    /**
     * Create a new SimpleApplicationEventMulticaster for the given BeanFactory.
     */
    public SimpleApplicationEventMulticaster(BeanFactory beanFactory) {
        setBeanFactory(beanFactory);
    }

    /**
     * Set a custom executor (typically a { @link org.springframework.core.task.TaskExecutor})
     * to invoke each listener with.
     * <p>Default is equivalent to { @link org.springframework.core.task.SyncTaskExecutor},
     * executing all listeners synchronously in the calling thread.
     * <p>Consider specifying an asynchronous task executor here to not block the
     * caller until all listeners have been executed. However, note that asynchronous
     * execution will not participate in the caller's thread context (class loader,
     * transaction association) unless the TaskExecutor explicitly supports this.
     * @see org.springframework.core.task.SyncTaskExecutor
     * @see org.springframework.core.task.SimpleAsyncTaskExecutor
     */
    public void setTaskExecutor(Executor taskExecutor) {
        this.taskExecutor = taskExecutor;
    }
}

```

```

/**
 * Return the current task executor for this multicaster.
 */
protected Executor getTaskExecutor() {
    return this.taskExecutor;
}

/**
 * Set the {@link ErrorHandler} to invoke in case an exception is thrown
 * from a listener.
 * <p>Default is none, with a listener exception stopping the current
 * multicast and getting propagated to the publisher of the current event.
 * If a {@linkplain #setTaskExecutor task executor} is specified, each
 * individual listener exception will get propagated to the executor but
 * won't necessarily stop execution of other listeners.
 * <p>Consider setting an {@link ErrorHandler} implementation that catches
 * and logs exceptions (a la
 * {@link org.springframework.scheduling.support.TaskUtils#LOG_AND_SUPPRESS_ERROR_HANDLER})
 * or an implementation that logs exceptions while nevertheless propagating them
 * (e.g. {@link
org.springframework.scheduling.support.TaskUtils#LOG_AND_PROPAGATE_ERROR_HANDLER}).
 * @since 4.1
 */
public void setErrorHandler(ErrorHandler errorHandler) {
    this.errorHandler = errorHandler;
}

/**
 * Return the current error handler for this multicaster.
 * @since 4.1
 */
protected ErrorHandler getErrorHandler() {
    return this.errorHandler;
}

@Override
public void multicastEvent(final ApplicationEvent event) {
    for (final ApplicationListener<?> listener : getApplicationListeners(event)) {
        Executor executor = getTaskExecutor();
        if (executor != null) {
            executor.execute(new Runnable() {
                @Override
                public void run() {
                    invokeListener(listener, event);
                }
            });
        }
    }
}

```

```

    }
    else {
        invokeListener(listener, event);
    }
}
}

/**
 * Invoke the given listener with the given event.
 * @param listener the ApplicationListener to invoke
 * @param event the current event to propagate
 * @since 4.1
 */
@SuppressWarnings({"unchecked", "rawtypes"})
protected void invokeListener(ApplicationListener listener, ApplicationEvent event) {
    ErrorHandler errorHandler = getErrorHandler();
    if (errorHandler != null) {
        try {
            listener.onApplicationEvent(event);
        }
        catch (Throwable err) {
            errorHandler.handleError(err);
        }
    }
    else {
        listener.onApplicationEvent(event);
    }
}

}

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 * limitations under the License.
 */

package org.springframework.context.event;

```

```

import org.springframework.context.ApplicationContext;
import org.springframework.context.ApplicationEvent;

/**
 * Base class for events raised for an {@code ApplicationContext}.
 *
 * @author Juergen Hoeller
 * @since 2.5
 */
@SuppressWarnings("serial")
public abstract class ApplicationContextEvent extends ApplicationEvent {

    /**
     * Create a new ContextStartedEvent.
     * @param source the {@code ApplicationContext} that the event is raised for
     * (must not be {@code null})
     */
    public ApplicationContextEvent(ApplicationContext source) {
        super(source);
    }

    /**
     * Get the {@code ApplicationContext} that the event was raised for.
     */
    public final ApplicationContext getApplicationContext() {
        return (ApplicationContext) getSource();
    }
}

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 * limitations under the License.
 */

package org.springframework.context.event;

import org.springframework.context.ApplicationEvent;

```

```

import org.springframework.context.ApplicationListener;

/**
 * Interface to be implemented by objects that can manage a number of
 * {@link ApplicationListener} objects, and publish events to them.
 *
 * <p>An {@link org.springframework.context.ApplicationEventPublisher}, typically
 * a Spring {@link org.springframework.context.ApplicationContext}, can use an
 * ApplicationEventMulticaster as a delegate for actually publishing events.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 */
public interface ApplicationEventMulticaster {

    /**
     * Add a listener to be notified of all events.
     * @param listener the listener to add
     */
    void addApplicationListener(ApplicationListener<?> listener);

    /**
     * Add a listener bean to be notified of all events.
     * @param listenerBeanName the name of the listener bean to add
     */
    void addApplicationListenerBean(String listenerBeanName);

    /**
     * Remove a listener from the notification list.
     * @param listener the listener to remove
     */
    void removeApplicationListener(ApplicationListener<?> listener);

    /**
     * Remove a listener bean from the notification list.
     * @param listenerBeanName the name of the listener bean to add
     */
    void removeApplicationListenerBean(String listenerBeanName);

    /**
     * Remove all listeners registered with this multicaster.
     * <p>After a remove call, the multicaster will perform no action
     * on event notification until new listeners are being registered.
     */
    void removeAllListeners();

    /**
     * Multicast the given application event to appropriate listeners.

```

```

* @param event the event to multicast
*/
void multicastEvent(ApplicationEvent event);

}
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*/

package org.springframework.context.event;

import java.lang.reflect.Constructor;

import org.aopalliance.intercept.MethodInterceptor;
import org.aopalliance.intercept.MethodInvocation;

import org.springframework.beans.factory.InitializingBean;
import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationEventPublisher;
import org.springframework.context.ApplicationEventPublisherAware;

/**
* { @link MethodInterceptor Interceptor} that publishes an
* { @code ApplicationEvent} to all { @code ApplicationListeners}
* registered with an { @code ApplicationEventPublisher} after each
* <i>successful</i> method invocation.
*
* <p>Note that this interceptor is only capable of publishing <i>stateless</i>
* events configured via the
* { @link #setApplicationEventClass "applicationEventClass"} property.
*
* @author Dmitriy Kopylenko
* @author Juergen Hoeller
* @author Rick Evans
* @see #setApplicationEventClass
* @see org.springframework.context.ApplicationEvent

```

```

* @see org.springframework.context.ApplicationListener
* @see org.springframework.context.ApplicationEventPublisher
* @see org.springframework.context.ApplicationContext
*/
public class EventPublicationInterceptor
    implements MethodInterceptor, ApplicationEventPublisherAware, InitializingBean {

    private Constructor<?> applicationEventClassConstructor;

    private ApplicationEventPublisher applicationEventPublisher;

    /**
     * Set the application event class to publish.
     * <p>The event class <b>must</b> have a constructor with a single
     * { @code Object } argument for the event source. The interceptor
     * will pass in the invoked object.
     * @throws IllegalArgumentException if the supplied { @code Class } is
     * { @code null } or if it is not an { @code ApplicationEvent } subclass or
     * if it does not expose a constructor that takes a single { @code Object } argument
     */
    public void setApplicationEventClass(Class<?> applicationEventClass) {
        if (ApplicationEvent.class.equals(applicationEventClass) ||
            !ApplicationEvent.class.isAssignableFrom(applicationEventClass)) {
            throw new IllegalArgumentException("applicationEventClass needs to extend ApplicationEvent");
        }
        try {
            this.applicationEventClassConstructor =
                applicationEventClass.getConstructor(new Class<?>[] { Object.class });
        }
        catch (NoSuchMethodException ex) {
            throw new IllegalArgumentException("applicationEventClass [" +
                applicationEventClass.getName() + "] does not have the required Object constructor: " + ex);
        }
    }

    @Override
    public void setApplicationEventPublisher(ApplicationEventPublisher applicationEventPublisher) {
        this.applicationEventPublisher = applicationEventPublisher;
    }

    @Override
    public void afterPropertiesSet() throws Exception {
        if (this.applicationEventClassConstructor == null) {
            throw new IllegalArgumentException("applicationEventClass is required");
        }
    }
}

```



```

@Override
public Object invoke(MethodInvocation invocation) throws Throwable {
    Object retVal = invocation.proceed();

    ApplicationEvent event = (ApplicationEvent)
        this.applicationEventClassConstructor.newInstance(new Object[] { invocation.getThis()});
    this.applicationEventPublisher.publishEvent(event);

    return retVal;
}

}
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 */

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}.
     */
    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);

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// 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 }. Subclasses can override
 * this to provide pre-built Resource objects rather than location Strings.
 * @return an array of Resource objects, or { @code null } if none
 * @see #getConfigLocations()
 */
protected Resource[] getConfigResources() {
    return null;
}

}

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 */

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;
}
}

```

1.78 spring-context-support 3.2.1.RELEASE

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*/

```
package org.springframework.cglib.core;
```

/**

* Custom extension of CGLIB's {[@link DefaultNamingPolicy](#)}, modifying

* the tag in generated class names from "ByCGLIB" to "BySpringCGLIB".

*

* <p>This is primarily designed to avoid clashes between a regular CGLIB

* version (used by some other library) and Spring's embedded variant,

* in case the same class happens to get proxied for different purposes.

*

* @author Juergen Hoeller

* @since 3.2.8

*/

```
public class SpringNamingPolicy extends DefaultNamingPolicy {
```

```
    public static final SpringNamingPolicy INSTANCE = new SpringNamingPolicy();
```

```
    @Override
```

```
    protected String getTag() {
```

```
        return "BySpringCGLIB";
```

```
    }
```

```
}
```

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*

```

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*/

```

```
package org.springframework.util.xml;
```

```
import javax.xml.transform.ErrorListener;
import javax.xml.transform.TransformerException;
```

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

```
/**
```

```

* Simple {@code javax.xml.transform.ErrorListener} implementation:
* logs warnings using the given Commons Logging logger instance,
* and rethrows errors to discontinue the XML transformation.
*

```

```
* @author Juergen Hoeller
```

```
* @since 1.2
```

```
*/
```

```
public class SimpleTransformErrorListener implements ErrorListener {
```

```
    private final Log logger;
```

```
/**
```

```

* Create a new SimpleTransformErrorListener for the given
* Commons Logging logger instance.
*/

```

```
*/
```

```
public SimpleTransformErrorListener(Log logger) {
    this.logger = logger;
}

```

```
@Override
```

```
public void warning(TransformerException ex) throws TransformerException {
    logger.warn("XSLT transformation warning", ex);
}

```

```
@Override
```



```

public void error(TransformerException ex) throws TransformerException {
    logger.error("XSLT transformation error", ex);
}

@Override
public void fatalError(TransformerException ex) throws TransformerException {
    throw ex;
}

}
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 */

package org.springframework.util.xml;

import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import javax.xml.XMLConstants;
import javax.xml.namespace.NamespaceContext;

import org.springframework.util.Assert;

/**
 * Simple {@code javax.xml.namespace.NamespaceContext} implementation. Follows the standard
 * {@code NamespaceContext} contract, and is loadable via a {@code java.util.Map} or
 * {@code java.util.Properties} object
 *
 * @author Arjen Poutsma
 * @since 3.0
 */
public class SimpleNamespaceContext implements NamespaceContext {

```

```

private Map<String, String> prefixToNamespaceUri = new HashMap<String, String>();

private Map<String, List<String>> namespaceUriToPrefixes = new HashMap<String, List<String>>();

private String defaultNamespaceUri = "";

@Override
public String getNamespaceURI(String prefix) {
    Assert.notNull(prefix, "prefix is null");
    if (XMLConstants.XML_NS_PREFIX.equals(prefix)) {
        return XMLConstants.XML_NS_URI;
    }
    else if (XMLConstants.XMLNS_ATTRIBUTE.equals(prefix)) {
        return XMLConstants.XMLNS_ATTRIBUTE_NS_URI;
    }
    else if (XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
        return defaultNamespaceUri;
    }
    else if (prefixToNamespaceUri.containsKey(prefix)) {
        return prefixToNamespaceUri.get(prefix);
    }
    return "";
}

@Override
public String getPrefix(String namespaceUri) {
    List<?> prefixes = getPrefixesInternal(namespaceUri);
    return prefixes.isEmpty() ? null : (String) prefixes.get(0);
}

@Override
public Iterator<String> getPrefixes(String namespaceUri) {
    return getPrefixesInternal(namespaceUri).iterator();
}

/**
 * Sets the bindings for this namespace context. The supplied map must consist of string key value pairs.
 *
 * @param bindings the bindings
 */
public void setBindings(Map<String, String> bindings) {
    for (Map.Entry<String, String> entry : bindings.entrySet()) {
        bindNamespaceUri(entry.getKey(), entry.getValue());
    }
}

/**

```

```

* Binds the given namespace as default namespace.
*
* @param namespaceUri the namespace uri
*/
public void bindDefaultNamespaceUri(String namespaceUri) {
    bindNamespaceUri(XMLConstants.DEFAULT_NS_PREFIX, namespaceUri);
}

/**
* Binds the given prefix to the given namespace.
*
* @param prefix the namespace prefix
* @param namespaceUri the namespace uri
*/
public void bindNamespaceUri(String prefix, String namespaceUri) {
    Assert.notNull(prefix, "No prefix given");
    Assert.notNull(namespaceUri, "No namespaceUri given");
    if (XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
        defaultNamespaceUri = namespaceUri;
    }
    else {
        prefixToNamespaceUri.put(prefix, namespaceUri);
        getPrefixesInternal(namespaceUri).add(prefix);
    }
}

/** Removes all declared prefixes. */
public void clear() {
    prefixToNamespaceUri.clear();
}

/**
* Returns all declared prefixes.
*
* @return the declared prefixes
*/
public Iterator<String> getBoundPrefixes() {
    return prefixToNamespaceUri.keySet().iterator();
}

private List<String> getPrefixesInternal(String namespaceUri) {
    if (defaultNamespaceUri.equals(namespaceUri)) {
        return Collections.singletonList(XMLConstants.DEFAULT_NS_PREFIX);
    }
    else if (XMLConstants.XML_NS_URI.equals(namespaceUri)) {
        return Collections.singletonList(XMLConstants.XML_NS_PREFIX);
    }
    else if (XMLConstants.XMLNS_ATTRIBUTE_NS_URI.equals(namespaceUri)) {

```

```

return Collections.singletonList(XMLConstants.XMLNS_ATTRIBUTE);
}
else {
List<String> list = namespaceUriToPrefixes.get(namespaceUri);
if (list == null) {
list = new ArrayList<String>();
namespaceUriToPrefixes.put(namespaceUri, list);
}
return list;
}
}

/**
 * Removes the given prefix from this context.
 *
 * @param prefix the prefix to be removed
 */
public void removeBinding(String prefix) {
if (XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
defaultNamespaceUri = "";
}
else {
String namespaceUri = prefixToNamespaceUri.remove(prefix);
List<String> prefixes = getPrefixesInternal(namespaceUri);
prefixes.remove(prefix);
}
}
}
}

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 */

package org.springframework.util.xml;

import org.apache.commons.logging.Log;
import org.xml.sax.ErrorHandler;

```

```

import org.xml.sax.SAXException;
import org.xml.sax.SAXParseException;

/**
 * Simple {@code org.xml.sax.ErrorHandler} implementation:
 * logs warnings using the given Commons Logging logger instance,
 * and rethrows errors to discontinue the XML transformation.
 *
 * @author Juergen Hoeller
 * @since 1.2
 */
public class SimpleSaxErrorHandler implements ErrorHandler {

    private final Log logger;

    /**
     * Create a new SimpleSaxErrorHandler for the given
     * Commons Logging logger instance.
     */
    public SimpleSaxErrorHandler(Log logger) {
        this.logger = logger;
    }

    @Override
    public void warning(SAXParseException ex) throws SAXException {
        logger.warn("Ignored XML validation warning", ex);
    }

    @Override
    public void error(SAXParseException ex) throws SAXException {
        throw ex;
    }

    @Override
    public void fatalError(SAXParseException ex) throws SAXException {
        throw ex;
    }

}
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```

```

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*/

```

```
package org.springframework.core;
```

```

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

```

```

import org.springframework.util.Assert;
import org.springframework.util.StringUtils;
import org.springframework.util.StringValueResolver;

```

```

/**
 * Simple implementation of the {@link AliasRegistry} interface.
 * Serves as base class for
 * {@link org.springframework.beans.factory.support.BeanDefinitionRegistry}
 * implementations.
 *
 * @author Juergen Hoeller
 * @since 2.5.2
 */

```

```
public class SimpleAliasRegistry implements AliasRegistry {
```

```
    /** Map from alias to canonical name */
```

```
    private final Map<String, String> aliasMap = new ConcurrentHashMap<String, String>(16);
```

```
    @Override
```

```

    public void registerAlias(String name, String alias) {
        Assert.hasText(name, "'name' must not be empty");
        Assert.hasText(alias, "'alias' must not be empty");
        if (alias.equals(name)) {
            this.aliasMap.remove(alias);
        }
        else {
            if (!allowAliasOverriding()) {
                String registeredName = this.aliasMap.get(alias);
                if (registeredName != null && !registeredName.equals(name)) {
                    throw new IllegalStateException("Cannot register alias '" + alias + "' for name '" +

```

```

        name + ": It is already registered for name " + registeredName + ".");
    }
}
checkForAliasCircle(name, alias);
this.aliasMap.put(alias, name);
}
}

/**
 * Return whether alias overriding is allowed.
 * Default is { @code true }.
 */
protected boolean allowAliasOverriding() {
    return true;
}

@Override
public void removeAlias(String alias) {
    String name = this.aliasMap.remove(alias);
    if (name == null) {
        throw new IllegalStateException("No alias " + alias + " registered");
    }
}

@Override
public boolean isAlias(String name) {
    return this.aliasMap.containsKey(name);
}

@Override
public String[] getAliases(String name) {
    List<String> result = new ArrayList<String>();
    synchronized (this.aliasMap) {
        retrieveAliases(name, result);
    }
    return StringUtils.toStringArray(result);
}

/**
 * Transitively retrieve all aliases for the given name.
 * @param name the target name to find aliases for
 * @param result the resulting aliases list
 */
private void retrieveAliases(String name, List<String> result) {
    for (Map.Entry<String, String> entry : this.aliasMap.entrySet()) {
        String registeredName = entry.getValue();
        if (registeredName.equals(name)) {
            String alias = entry.getKey();

```

```

    result.add(alias);
    retrieveAliases(alias, result);
}
}
}

/**
 * Resolve all alias target names and aliases registered in this
 * factory, applying the given StringValueResolver to them.
 * <p>The value resolver may for example resolve placeholders
 * in target bean names and even in alias names.
 * @param valueResolver the StringValueResolver to apply
 */
public void resolveAliases(StringValueResolver valueResolver) {
    Assert.notNull(valueResolver, "StringValueResolver must not be null");
    synchronized (this.aliasMap) {
        Map<String, String> aliasCopy = new HashMap<String, String>(this.aliasMap);
        for (String alias : aliasCopy.keySet()) {
            String registeredName = aliasCopy.get(alias);
            String resolvedAlias = valueResolver.resolveStringValue(alias);
            String resolvedName = valueResolver.resolveStringValue(registeredName);
            if (resolvedAlias.equals(resolvedName)) {
                this.aliasMap.remove(alias);
            }
            else if (!resolvedAlias.equals(alias)) {
                String existingName = this.aliasMap.get(resolvedAlias);
                if (existingName != null && !existingName.equals(resolvedName)) {
                    throw new IllegalStateException(
                        "Cannot register resolved alias '" + resolvedAlias + "' (original: '" + alias +
                        "') for name '" + resolvedName + "': It is already registered for name '" +
                        registeredName + "'");
                }
                checkForAliasCircle(resolvedName, resolvedAlias);
                this.aliasMap.remove(alias);
                this.aliasMap.put(resolvedAlias, resolvedName);
            }
            else if (!registeredName.equals(resolvedName)) {
                this.aliasMap.put(alias, resolvedName);
            }
        }
    }
}

/**
 * Determine the raw name, resolving aliases to canonical names.
 * @param name the user-specified name
 * @return the transformed name
 */

```



```

public String canonicalName(String name) {
    String canonicalName = name;
    // Handle aliasing...
    String resolvedName;
    do {
        resolvedName = this.aliasMap.get(canonicalName);
        if (resolvedName != null) {
            canonicalName = resolvedName;
        }
    }
    while (resolvedName != null);
    return canonicalName;
}

/**
 * Check whether the given name points back to given alias as an alias
 * in the other direction, catching a circular reference upfront and
 * throwing a corresponding IllegalStateException.
 * @param name the candidate name
 * @param alias the candidate alias
 * @see #registerAlias
 */
protected void checkForAliasCircle(String name, String alias) {
    if (alias.equals(canonicalName(name))) {
        throw new IllegalStateException("Cannot register alias '" + alias +
            "' for name '" + name + "': Circular reference - '" +
            name + "' is a direct or indirect alias for '" + alias + "' already");
    }
}
}

```

1.83 spring-integration-sftp 4.1.1.RELEASE

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1.84 spring-jdbc 4.1.1.RELEASE

1.85 spring-jdbc 3.2.1.RELEASE

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