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# DebuggingObjectOutputStream 1.0

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# 1.69 log4j 1.2.16

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# 1.71 maven-scm-api 1.9.2

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package io.netty.util.internal.chmv8;
import java.util.concurrent.RecursiveAction;
/**
* A {@link ForkJoinTask} with a completion action performed when
* triggered and there are no remaining pending actions.
* CountedCompleters are in general more robust in the
* presence of subtask stalls and blockage than are other forms of
* ForkJoinTasks, but are less intuitive to program. Uses of
* CountedCompleter are similar to those of other completion based
* components (such as {@link java.nio.channels.CompletionHandler})
* except that multiple <em>pending</em> completions may be necessary
* to trigger the completion action {@link #onCompletion(CountedCompleter)},
* not just one.
* Unless initialized otherwise, the {@linkplain #getPendingCount pending
* count} starts at zero, but may be (atomically) changed using
* methods {@link #setPendingCount}, {@link #addToPendingCount}, and
```

\* {@link #compareAndSetPendingCount}. Upon invocation of {@link

- \* #tryComplete}, if the pending action count is nonzero, it is
- \* decremented; otherwise, the completion action is performed, and if
- \* this completer itself has a completer, the process is continued
- \* with its completer. As is the case with related synchronization
- \* components such as {@link java.util.concurrent.Phaser Phaser} and
- \* {@link java.util.concurrent.Semaphore Semaphore}, these methods
- \* affect only internal counts; they do not establish any further
- \* internal bookkeeping. In particular, the identities of pending
- \* tasks are not maintained. As illustrated below, you can create
- \* subclasses that do record some or all pending tasks or their
- \* results when needed. As illustrated below, utility methods
- \* supporting customization of completion traversals are also
- \* provided. However, because CountedCompleters provide only basic
- \* synchronization mechanisms, it may be useful to create further
- \* abstract subclasses that maintain linkages, fields, and additional
- \* support methods appropriate for a set of related usages.

\*

- \* A concrete CountedCompleter class must define method { @link
- \* #compute}, that should in most cases (as illustrated below), invoke
- \* {@code tryComplete()} once before returning. The class may also
- \* optionally override method {@link #onCompletion(CountedCompleter)}
- \* to perform an action upon normal completion, and method
- \* {@link #onExceptionalCompletion(Throwable, CountedCompleter)} to
- \* perform an action upon any exception.

\*

- \* CountedCompleters most often do not bear results, in which case
- \* they are normally declared as {@code CountedCompleter<Void>}, and
- \* will always return {@code null} as a result value. In other cases,
- \* you should override method {@link #getRawResult} to provide a
- \* result from {@code join(), invoke()}, and related methods. In
- \* general, this method should return the value of a field (or a
- \* function of one or more fields) of the CountedCompleter object that
- \* holds the result upon completion. Method {@link #setRawResult} by
- \* default plays no role in CountedCompleters. It is possible, but
- \* rarely applicable, to override this method to maintain other
- \* objects or fields holding result data.

\*

- \* A CountedCompleter that does not itself have a completer (i.e.,
- \* one for which {@link #getCompleter} returns {@code null}) can be
- $\ensuremath{^*}$  used as a regular Fork JoinTask with this added functionality.
- \* However, any completer that in turn has another completer serves
- \* only as an internal helper for other computations, so its own task
- \* status (as reported in methods such as {@link ForkJoinTask#isDone})
- \* is arbitrary; this status changes only upon explicit invocations of
- \* {@link #complete}, {@link ForkJoinTask#cancel},
- \* {@link ForkJoinTask#completeExceptionally(Throwable)} or upon
- \* exceptional completion of method { @code compute}. Upon any
- \* exceptional completion, the exception may be relayed to a task's

```
* completer (and its completer, and so on), if one exists and it has
* not otherwise already completed. Similarly, cancelling an internal
* CountedCompleter has only a local effect on that completer, so is
* not often useful.
* <b>Sample Usages.</b>
* <b>Parallel recursive decomposition.</b> CountedCompleters may
* be arranged in trees similar to those often used with {@link
* RecursiveAction}s, although the constructions involved in setting
* them up typically vary. Here, the completer of each task is its
* parent in the computation tree. Even though they entail a bit more
* bookkeeping, CountedCompleters may be better choices when applying
* a possibly time-consuming operation (that cannot be further
* subdivided) to each element of an array or collection; especially
* when the operation takes a significantly different amount of time
* to complete for some elements than others, either because of
* intrinsic variation (for example I/O) or auxiliary effects such as
* garbage collection. Because CountedCompleters provide their own
* continuations, other threads need not block waiting to perform
* them.
* For example, here is an initial version of a class that uses
* divide-by-two recursive decomposition to divide work into single
* pieces (leaf tasks). Even when work is split into individual calls,
* tree-based techniques are usually preferable to directly forking
* leaf tasks, because they reduce inter-thread communication and
* improve load balancing. In the recursive case, the second of each
* pair of subtasks to finish triggers completion of its parent
* (because no result combination is performed, the default no-op
* implementation of method {@code onCompletion} is not overridden).
* A static utility method sets up the base task and invokes it
* (here, implicitly using the {@link ForkJoinPool#commonPool()}).
*  { @ code
* class MyOperation<E> { void apply(E e) { ... } }
* class ForEach<E> extends CountedCompleter<Void> {
  public static <E> void forEach(E[] array, MyOperation<E> op) {
    new ForEach<E>(null, array, op, 0, array.length).invoke();
  final E[] array; final MyOperation<E> op; final int lo, hi;
* ForEach(CountedCompleter<?> p, E[] array, MyOperation<E> op, int lo, int hi) {
    super(p);
    this.array = array; this.op = op; this.lo = lo; this.hi = hi;
* }
```

```
public void compute() { // version 1
    if (hi - lo >= 2) {
     int mid = (lo + hi) >>> 1;
     setPendingCount(2); // must set pending count before fork
     new ForEach(this, array, op, mid, hi).fork(); // right child
     new ForEach(this, array, op, lo, mid).fork(); // left child
    else if (hi > lo)
     op.apply(array[lo]);
    tryComplete();
* }}
* This design can be improved by noticing that in the recursive case,
* the task has nothing to do after forking its right task, so can
* directly invoke its left task before returning. (This is an analog
* of tail recursion removal.) Also, because the task returns upon
* executing its left task (rather than falling through to invoke
* {@code tryComplete}) the pending count is set to one:
*  { @ code
* class ForEach<E> ...
   public void compute() { // version 2
    if (hi - lo >= 2) {
     int mid = (lo + hi) >>> 1;
     setPendingCount(1); // only one pending
     new ForEach(this, array, op, mid, hi).fork(); // right child
     new ForEach(this, array, op, lo, mid).compute(); // direct invoke
    else {
     if (hi > lo)
      op.apply(array[lo]);
     tryComplete();
* }
* As a further improvement, notice that the left task need not even exist.
* Instead of creating a new one, we can iterate using the original task,
* and add a pending count for each fork. Additionally, because no task
* in this tree implements an {@link #onCompletion(CountedCompleter)} method,
* {@code tryComplete()} can be replaced with {@link #propagateCompletion}.
*  { @ code
* class ForEach<E> ...
* public void compute() { // version 3
   int l = lo, h = hi;
```

```
while (h - 1 >= 2) {
     int mid = (1 + h) >>> 1;
     addToPendingCount(1);
     new ForEach(this, array, op, mid, h).fork(); // right child
     h = mid;
   if (h > 1)
     op.apply(array[1]);
   propagateCompletion();
* }
* Additional improvements of such classes might entail precomputing
* pending counts so that they can be established in constructors,
* specializing classes for leaf steps, subdividing by say, four,
* instead of two per iteration, and using an adaptive threshold
* instead of always subdividing down to single elements.
* <b>Searching.</b> A tree of CountedCompleters can search for a
* value or property in different parts of a data structure, and
* report a result in an {@link
* java.util.concurrent.atomic.AtomicReference AtomicReference} as
* soon as one is found. The others can poll the result to avoid
* unnecessary work. (You could additionally {@linkplain #cancel
* cancel} other tasks, but it is usually simpler and more efficient
* to just let them notice that the result is set and if so skip
* further processing.) Illustrating again with an array using full
* partitioning (again, in practice, leaf tasks will almost always
* process more than one element):
*  { @ code
* class Searcher<E> extends CountedCompleter<E> {
* final E[] array; final AtomicReference<E> result; final int lo, hi;
* Searcher(CountedCompleter<?> p, E[] array, AtomicReference<E> result, int lo, int hi) {
   super(p);
   this.array = array; this.result = result; this.lo = lo; this.hi = hi;
  public E getRawResult() { return result.get(); }
  public void compute() { // similar to ForEach version 3
   int l = lo, h = hi;
    while (result.get() == null && h \ge 1) {
     if (h - 1 >= 2) {
      int mid = (1 + h) >>> 1;
      addToPendingCount(1);
      new Searcher(this, array, result, mid, h).fork();
      h = mid;
     }
     else {
```

```
E x = array[1];
      if (matches(x) && result.compareAndSet(null, x))
       quietlyCompleteRoot(); // root task is now joinable
      break;
     }
    tryComplete(); // normally complete whether or not found
  boolean matches(E e) { ... } // return true if found
  public static <E> E search(E[] array) {
     return new Searcher<E>(null, array, new AtomicReference<E>(), 0, array.length).invoke();
* }}
* In this example, as well as others in which tasks have no other
* effects except to compareAndSet a common result, the trailing
* unconditional invocation of {@code tryComplete} could be made
* conditional ({ @code if (result.get() == null) tryComplete();})
* because no further bookkeeping is required to manage completions
* once the root task completes.
* <b>Recording subtasks.</b> CountedCompleter tasks that combine
* results of multiple subtasks usually need to access these results
* in method {@link #onCompletion(CountedCompleter)}. As illustrated in the following
* class (that performs a simplified form of map-reduce where mappings
* and reductions are all of type {@code E}), one way to do this in
* divide and conquer designs is to have each subtask record its
* sibling, so that it can be accessed in method {@code onCompletion}.
* This technique applies to reductions in which the order of
* combining left and right results does not matter; ordered
* reductions require explicit left/right designations. Variants of
* other streamlinings seen in the above examples may also apply.
*  { @code
* class MyMapper<E> { E apply(E v) { ... } }
* class MyReducer<E> { E apply(E x, E y) { ... } }
* class MapReducer<E> extends CountedCompleter<E> {
* final E[] array; final MyMapper<E> mapper;
* final MyReducer<E> reducer; final int lo, hi;
* MapReducer<E> sibling;
* E result;
  MapReducer(CountedCompleter<?> p, E[] array, MyMapper<E> mapper,
         MyReducer<E> reducer, int lo, int hi) {
    super(p);
    this.array = array; this.mapper = mapper;
    this.reducer = reducer; this.lo = lo; this.hi = hi;
```

```
public void compute() {
    if (hi - lo >= 2) {
     int mid = (lo + hi) >>> 1;
     MapReducer<E> left = new MapReducer(this, array, mapper, reducer, lo, mid);
     MapReducer<E> right = new MapReducer(this, array, mapper, reducer, mid, hi);
     left.sibling = right;
     right.sibling = left;
     setPendingCount(1); // only right is pending
     right.fork();
     left.compute(); // directly execute left
    }
    else {
     if (hi > lo)
       result = mapper.apply(array[lo]);
     tryComplete();
    }
  public void onCompletion(CountedCompleter<?> caller) {
    if (caller != this) {
     MapReducer<E> child = (MapReducer<E>)caller;
     MapReducer<E> sib = child.sibling;
     if (sib == null || sib.result == null)
      result = child.result;
     else
      result = reducer.apply(child.result, sib.result);
    }
  public E getRawResult() { return result; }
  public static <E> E mapReduce(E[] array, MyMapper<E> mapper, MyReducer<E> reducer) {
    return new MapReducer<E>(null, array, mapper, reducer,
                   0, array.length).invoke();
  }
* }}
* Here, method {@code onCompletion} takes a form common to many
* completion designs that combine results. This callback-style method
* is triggered once per task, in either of the two different contexts
* in which the pending count is, or becomes, zero: (1) by a task
* itself, if its pending count is zero upon invocation of {@code
* tryComplete}, or (2) by any of its subtasks when they complete and
* decrement the pending count to zero. The {@code caller} argument
* distinguishes cases. Most often, when the caller is {@code this},
* no action is necessary. Otherwise the caller argument can be used
* (usually via a cast) to supply a value (and/or links to other
* values) to be combined. Assuming proper use of pending counts, the
* actions inside {@code onCompletion} occur (once) upon completion of
* a task and its subtasks. No additional synchronization is required
```

```
* within this method to ensure thread safety of accesses to fields of
* this task or other completed tasks.
* <b>Completion Traversals</b>. If using {@code onCompletion} to
* process completions is inapplicable or inconvenient, you can use
* methods {@link #firstComplete} and {@link #nextComplete} to create
* custom traversals. For example, to define a MapReducer that only
* splits out right-hand tasks in the form of the third ForEach
* example, the completions must cooperatively reduce along
* unexhausted subtask links, which can be done as follows:
*  { @code
* class MapReducer<E> extends CountedCompleter<E> { // version 2
* final E[] array; final MyMapper<E> mapper;
* final MyReducer<E> reducer; final int lo, hi;
* MapReducer<E> forks, next; // record subtask forks in list
* E result;
* MapReducer(CountedCompleter<?> p, E[] array, MyMapper<E> mapper,
         MyReducer<E> reducer, int lo, int hi, MapReducer<E> next) {
   super(p);
   this.array = array; this.mapper = mapper;
   this.reducer = reducer; this.lo = lo; this.hi = hi;
    this.next = next;
 public void compute() {
   int l = lo, h = hi;
    while (h - 1 >= 2) {
     int mid = (1 + h) >>> 1;
     addToPendingCount(1);
     (forks = new MapReducer(this, array, mapper, reducer, mid, h, forks)).fork();
     h = mid;
   if (h > 1)
     result = mapper.apply(array[1]);
   // process completions by reducing along and advancing subtask links
    for (CountedCompleter<?> c = firstComplete(); c != null; c = c.nextComplete()) {
     for (MapReducer t = (MapReducer)c, s = t.forks; s != null; s = t.forks = s.next)
      t.result = reducer.apply(t.result, s.result);
  public E getRawResult() { return result; }
  public static <E> E mapReduce(E[] array, MyMapper<E> mapper, MyReducer<E> reducer) {
   return new MapReducer<E>(null, array, mapper, reducer,
                   0, array.length, null).invoke();
* }
* }}
```

```
* <b>Triggers.</b> Some CountedCompleters are themselves never
* forked, but instead serve as bits of plumbing in other designs;
* including those in which the completion of one or more async tasks
* triggers another async task. For example:
*  { @code
* class HeaderBuilder extends CountedCompleter<...> { ... }
* class BodyBuilder extends CountedCompleter<...> { ... }
* class PacketSender extends CountedCompleter<...> {
* PacketSender(...) { super(null, 1); ... } // trigger on second completion
* public void compute() { } // never called
* public void onCompletion(CountedCompleter<?> caller) { sendPacket(); }
* }
* // sample use:
* PacketSender p = new PacketSender();
* new HeaderBuilder(p, ...).fork();
* new BodyBuilder(p, ...).fork();
* }
* @since 1.8
* @author Doug Lea
@SuppressWarnings("all")
public abstract class CountedCompleter<T> extends ForkJoinTask<T> {
 private static final long serialVersionUID = 5232453752276485070L;
 /** This task's completer, or null if none */
 final CountedCompleter<?> completer;
 /** The number of pending tasks until completion */
 volatile int pending;
  * Creates a new CountedCompleter with the given completer
  * and initial pending count.
  * @param completer this task's completer, or {@code null} if none
  * @param initialPendingCount the initial pending count
 protected CountedCompleter(CountedCompleter<?> completer,
                 int initialPendingCount) {
   this.completer = completer;
   this.pending = initialPendingCount;
 }
 /**
  * Creates a new CountedCompleter with the given completer
  * and an initial pending count of zero.
```

```
* @param completer this task's completer, or {@code null} if none
protected CountedCompleter(CountedCompleter<?> completer) {
  this.completer = completer;
}
/**
* Creates a new CountedCompleter with no completer
* and an initial pending count of zero.
protected CountedCompleter() {
  this.completer = null;
}
/**
* The main computation performed by this task.
public abstract void compute();
* Performs an action when method {@link #tryComplete} is invoked
* and the pending count is zero, or when the unconditional
* method {@link #complete} is invoked. By default, this method
* does nothing. You can distinguish cases by checking the
* identity of the given caller argument. If not equal to {@code
* this}, then it is typically a subtask that may contain results
* (and/or links to other results) to combine.
* @param caller the task invoking this method (which may
* be this task itself)
*/
public void onCompletion(CountedCompleter<?> caller) {
* Performs an action when method {@link
* #completeExceptionally(Throwable)} is invoked or method {@link
* #compute} throws an exception, and this task has not already
* otherwise completed normally. On entry to this method, this task
* {@link ForkJoinTask#isCompletedAbnormally}. The return value
* of this method controls further propagation: If {@code true}
* and this task has a completer that has not completed, then that
* completer is also completed exceptionally, with the same
* exception as this completer. The default implementation of
* this method does nothing except return {@code true}.
* @param ex the exception
* @param caller the task invoking this method (which may
```

```
* be this task itself)
* @return {@code true} if this exception should be propagated to this
* task's completer, if one exists
public boolean onExceptionalCompletion(Throwable ex, CountedCompleter<?> caller) {
  return true;
}
/**
* Returns the completer established in this task's constructor,
* or {@code null} if none.
* @return the completer
public final CountedCompleter<?> getCompleter() {
  return completer;
}
/**
* Returns the current pending count.
* @return the current pending count
public final int getPendingCount() {
  return pending;
}
/**
* Sets the pending count to the given value.
* @param count the count
public final void setPendingCount(int count) {
  pending = count;
}
/**
* Adds (atomically) the given value to the pending count.
* @param delta the value to add
public final void addToPendingCount(int delta) {
  int c;
  do {} while (!U.compareAndSwapInt(this, PENDING, c = pending, c+delta));
}
* Sets (atomically) the pending count to the given count only if
```

```
* it currently holds the given expected value.
* @param expected the expected value
* @param count the new value
* @return {@code true} if successful
public final boolean compareAndSetPendingCount(int expected, int count) {
  return U.compareAndSwapInt(this, PENDING, expected, count);
}
/**
* If the pending count is nonzero, (atomically) decrements it.
* @return the initial (undecremented) pending count holding on entry
* to this method
public final int decrementPendingCountUnlessZero() {
  do {} while ((c = pending) != 0 &&
       !U.compareAndSwapInt(this, PENDING, c, c - 1));
  return c;
}
/**
* Returns the root of the current computation; i.e., this
* task if it has no completer, else its completer's root.
* @return the root of the current computation
public final CountedCompleter<?> getRoot() {
  CountedCompleter<?> a = this, p;
  while ((p = a.completer) != null)
     a = p;
  return a;
}
/**
* If the pending count is nonzero, decrements the count;
* otherwise invokes {@link #onCompletion(CountedCompleter)}
* and then similarly tries to complete this task's completer,
* if one exists, else marks this task as complete.
public final void tryComplete() {
  CountedCompleter<?> a = this, s = a;
  for (int c;;) {
     if ((c = a.pending) == 0) {
       a.onCompletion(s);
       if ((a = (s = a).completer) == null) {
```

```
s.quietlyComplete();
         return:
       }
    }
    else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
       return;
  }
}
/**
* Equivalent to {@link #tryComplete} but does not invoke {@link
* #onCompletion(CountedCompleter)} along the completion path:
* If the pending count is nonzero, decrements the count;
* otherwise, similarly tries to complete this task's completer, if
* one exists, else marks this task as complete. This method may be
* useful in cases where {@code onCompletion} should not, or need
* not, be invoked for each completer in a computation.
public final void propagateCompletion() {
  CountedCompleter<?> a = this, s = a;
  for (int c;;) {
    if ((c = a.pending) == 0) {
       if ((a = (s = a).completer) == null) {
         s.quietlyComplete();
         return;
       }
     }
    else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
       return:
  }
}
* Regardless of pending count, invokes
* {@link #onCompletion(CountedCompleter)}, marks this task as
* complete and further triggers {@link #tryComplete} on this
* task's completer, if one exists. The given rawResult is
* used as an argument to {@link #setRawResult} before invoking
* {@link #onCompletion(CountedCompleter)} or marking this task
* as complete; its value is meaningful only for classes
* overriding {@code setRawResult}. This method does not modify
* the pending count.
* This method may be useful when forcing completion as soon as
* any one (versus all) of several subtask results are obtained.
* However, in the common (and recommended) case in which {@code
* setRawResult} is not overridden, this effect can be obtained
* more simply using {@code quietlyCompleteRoot();}.
```

```
* @param rawResult the raw result
public void complete(T rawResult) {
  CountedCompleter<?> p;
  setRawResult(rawResult);
  onCompletion(this);
  quietlyComplete();
  if ((p = completer) != null)
    p.tryComplete();
}
/**
* If this task's pending count is zero, returns this task;
* otherwise decrements its pending count and returns {@code
* null \}. This method is designed to be used with {@link
* #nextComplete} in completion traversal loops.
* @return this task, if pending count was zero, else { @code null}
public final CountedCompleter<?> firstComplete() {
  for (int c;;) {
    if ((c = pending) == 0)
       return this;
    else if (U.compareAndSwapInt(this, PENDING, c, c - 1))
       return null;
  }
}
/**
* If this task does not have a completer, invokes {@link
* ForkJoinTask#quietlyComplete} and returns {@code null}. Or, if
* the completer's pending count is non-zero, decrements that
* pending count and returns {@code null}. Otherwise, returns the
* completer. This method can be used as part of a completion
* traversal loop for homogeneous task hierarchies:
*  { @ code
* for (CountedCompleter<?> c = firstComplete();
     c != null;
     c = c.nextComplete()) {
* // ... process c ...
* }}
* @return the completer, or {@code null} if none
public final CountedCompleter<?> nextComplete() {
```

```
CountedCompleter<?> p;
  if ((p = completer) != null)
    return p.firstComplete();
  else {
    quietlyComplete();
    return null;
  }
}
/**
* Equivalent to {@code getRoot().quietlyComplete()}.
public final void quietlyCompleteRoot() {
  for (CountedCompleter<?> a = this, p;;) {
    if ((p = a.completer) == null) {
       a.quietlyComplete();
       return;
     }
    a = p;
  }
}
* Supports ForkJoinTask exception propagation.
void internalPropagateException(Throwable ex) {
  CountedCompleter<?> a = this, s = a;
  while (a.onExceptionalCompletion(ex, s) &&
       (a = (s = a).completer) != null && a.status >= 0 &&
       a.recordExceptionalCompletion(ex) == EXCEPTIONAL)
}
/**
* Implements execution conventions for CountedCompleters.
protected final boolean exec() {
  compute();
  return false;
}
/**
* Returns the result of the computation. By default
* returns {@code null}, which is appropriate for {@code Void}
* actions, but in other cases should be overridden, almost
* always to return a field or function of a field that
* holds the result upon completion.
```

```
* @return the result of the computation
public T getRawResult() { return null; }
/**
* A method that result-bearing CountedCompleters may optionally
* use to help maintain result data. By default, does nothing.
* Overrides are not recommended. However, if this method is
* overridden to update existing objects or fields, then it must
* in general be defined to be thread-safe.
protected void setRawResult(T t) { }
// Unsafe mechanics
private static final sun.misc.Unsafe U;
private static final long PENDING;
static {
  try {
    U = getUnsafe();
    PENDING = U.objectFieldOffset
          (CountedCompleter.class.getDeclaredField("pending"));
  } catch (Exception e) {
     throw new Error(e);
}
/**
* Returns a sun.misc.Unsafe. Suitable for use in a 3rd party package.
* Replace with a simple call to Unsafe.getUnsafe when integrating
* into a jdk.
* @return a sun.misc.Unsafe
private static sun.misc.Unsafe getUnsafe() {
     return sun.misc.Unsafe.getUnsafe();
  } catch (SecurityException tryReflectionInstead) {}
     return java.security.AccessController.doPrivileged
          (new java.security.PrivilegedExceptionAction<sun.misc.Unsafe>() {
            public sun.misc.Unsafe run() throws Exception {
               Class<sun.misc.Unsafe> k = sun.misc.Unsafe.class;
               for (java.lang.reflect.Field f: k.getDeclaredFields()) {
                 f.setAccessible(true);
                 Object x = f.get(null);
                 if (k.isInstance(x))
                   return k.cast(x);
               }
```

```
throw new NoSuchFieldError("the Unsafe");
              }});
    } catch (java.security.PrivilegedActionException e) {
      throw new RuntimeException("Could not initialize intrinsics",
           e.getCause());
    }
  }
}
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* under the License.
package io.netty.util.concurrent;
import java.util.concurrent.TimeUnit;
* A skeletal {@link Future} implementation which represents a {@link Future} which has been completed already.
public abstract class CompleteFuture<V> extends AbstractFuture<V> {
 private final EventExecutor executor;
  * Creates a new instance.
  * @param executor the {@link EventExecutor} associated with this future
  */
 protected CompleteFuture(EventExecutor executor) {
    this.executor = executor;
  }
 /**
  * Return the {@link EventExecutor} which is used by this {@link CompleteFuture}.
 protected EventExecutor executor() {
```

```
return executor;
}
@Override
public Future<V> addListener(GenericFutureListener<? extends Future<? super V>> listener) {
  if (listener == null) {
    throw new NullPointerException("listener");
  DefaultPromise.notifyListener(executor(), this, listener);
  return this:
}
@Override
public Future<V> addListeners(GenericFutureListener<? extends Future<? super V>>... listeners) {
  if (listeners == null) {
    throw new NullPointerException("listeners");
  for (GenericFutureListener<? extends Future<? super V>> 1: listeners) {
    if (l == null) {
       break;
    DefaultPromise.notifyListener(executor(), this, l);
  return this;
}
@Override
public Future<V> removeListener(GenericFutureListener<? extends Future<? super V>> listener) {
  // NOOP
  return this;
}
@Override
public Future<V> removeListeners(GenericFutureListener<? extends Future<? super V>>... listeners) {
  // NOOP
  return this;
}
@Override
public Future<V> await() throws InterruptedException {
  if (Thread.interrupted()) {
    throw new InterruptedException();
  return this;
}
@Override
public boolean await(long timeout, TimeUnit unit) throws InterruptedException {
```

```
if (Thread.interrupted()) {
     throw new InterruptedException();
  }
  return true;
}
@Override
public Future<V> sync() throws InterruptedException {
  return this;
}
@Override
public Future<V> syncUninterruptibly() {
  return this;
@Override
public boolean await(long timeoutMillis) throws InterruptedException {
  if (Thread.interrupted()) {
     throw new InterruptedException();
  return true;
}
@Override
public Future<V> awaitUninterruptibly() {
  return this;
}
@Override
public boolean awaitUninterruptibly(long timeout, TimeUnit unit) {
  return true;
}
@Override
public boolean awaitUninterruptibly(long timeoutMillis) {
  return true;
}
@Override
public boolean isDone() {
  return true;
}
@Override
public boolean isCancellable() {
  return false;
}
```

```
@Override
 public boolean isCancelled() {
    return false;
  }
  @Override
 public boolean cancel(boolean mayInterruptIfRunning) {
    return false;
  }
}
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* under the License.
package io.netty.util;
/**
* An {@link IllegalStateException} which is raised when a user attempts to access a {@link ReferenceCounted}
* reference count has been decreased to 0 (and consequently freed).
public class IllegalReferenceCountException extends IllegalStateException {
 private static final long serialVersionUID = -2507492394288153468L;
 public IllegalReferenceCountException() { }
 public IllegalReferenceCountException(int refCnt) {
    this("refCnt: " + refCnt);
  }
 public \ IIlegal Reference Count Exception (int \ ref Cnt, \ int \ increment) \ \{
    this("refCnt: " + refCnt + ", " + (increment > 0? "increment: " + increment: "decrement: " + -increment));
  }
```

```
public IllegalReferenceCountException(String message) {
    super(message);
  }
 public IllegalReferenceCountException(String message, Throwable cause) {
    super(message, cause);
  }
 public IllegalReferenceCountException(Throwable cause) {
    super(cause);
  }
}
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package io.netty.channel;
import io.netty.util.ReferenceCountUtil;
import io.netty.util.internal.TypeParameterMatcher;
* {@link ChannelInboundHandlerAdapter} which allows to explicit only handle a specific type of messages.
* For example here is an implementation which only handle {@link String} messages.
    public class StringHandler extends
         {@link SimpleChannelInboundHandler}<{@link String}&gt; {
      { @code @Override}
      protected void channelReadO({@link ChannelHandlerContext} ctx, {@link String} message)
           throws {@link Exception} {
        System.out.println(message);
      }
*
```

```
* Be aware that depending of the constructor parameters it will release all handled messages.
* <h3>Forward compatibility notice</h3>
* Please keep in mind that {@link #channelRead0(ChannelHandlerContext, Object)} will be renamed to
* { @code messageReceived(ChannelHandlerContext, I)} in 5.0.
*/
public abstract class SimpleChannelInboundHandler<I> extends ChannelInboundHandlerAdapter {
 private final TypeParameterMatcher matcher;
 private final boolean autoRelease;
 /**
  * @see {@link #SimpleChannelInboundHandler(boolean)} with {@code true} as boolean parameter.
 protected SimpleChannelInboundHandler() {
   this(true);
 }
 /**
  * Create a new instance which will try to detect the types to match out of the type parameter of the class.
  * @param autoRelease { @code true} if handled messages should be released automatically by pass them to
                {@link ReferenceCountUtil#release(Object)}.
  */
 protected SimpleChannelInboundHandler(boolean autoRelease) {
   matcher = TypeParameterMatcher.find(this, SimpleChannelInboundHandler.class, "I");
   this.autoRelease = autoRelease;
 }
 /**
  * @see {@link #SimpleChannelInboundHandler(Class, boolean)} with {@code true} as boolean value.
 protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType) {
    this(inboundMessageType, true);
 }
 /**
  * Create a new instance
  * @param inboundMessageType The type of messages to match
  * @param autoRelease
                              {@code true} if handled messages should be released automatically by pass them to
                     {@link ReferenceCountUtil#release(Object)}.
  */
 protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType, boolean autoRelease) {
```

matcher = TypeParameterMatcher.get(inboundMessageType);

```
this.autoRelease = autoRelease;
 }
 /**
  * Returns {@code true} if the given message should be handled. If {@code false} it will be passed to the next
  * {@link ChannelInboundHandler} in the {@link ChannelPipeline}.
 public boolean acceptInboundMessage(Object msg) throws Exception {
   return matcher.match(msg);
 }
 @Override
 public void channelRead(ChannelHandlerContext ctx, Object msg) throws Exception {
   boolean release = true;
   try {
      if (acceptInboundMessage(msg)) {
         @SuppressWarnings("unchecked")
        I imsg = (I) msg;
         channelRead0(ctx, imsg);
      } else {
        release = false;
        ctx.fireChannelRead(msg);
      }
    } finally {
      if (autoRelease && release) {
         ReferenceCountUtil.release(msg);
      }
    }
 }
  * <strong>Please keep in mind that this method will be renamed to
  * { @code messageReceived(ChannelHandlerContext, I)} in 5.0.</strong>
  * Is called for each message of type {@link I}.
  * @param ctx
                      the {@link ChannelHandlerContext} which this {@link SimpleChannelInboundHandler}
                belongs to
  * @param msg
                       the message to handle
  * @throws Exception is thrown if an error occurred
 protected abstract void channelRead0(ChannelHandlerContext ctx, I msg) throws Exception;
}
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```

```
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package io.netty.channel;
import io.netty.util.concurrent.CompleteFuture;
import io.netty.util.concurrent.EventExecutor;
import io.netty.util.concurrent.Future;
import io.netty.util.concurrent.GenericFutureListener;
/**
* A skeletal {@link ChannelFuture} implementation which represents a
* {@link ChannelFuture} which has been completed already.
abstract class CompleteChannelFuture extends CompleteFuture<Void> implements ChannelFuture {
 private final Channel channel;
  * Creates a new instance.
  * @param channel the {@link Channel} associated with this future
 protected CompleteChannelFuture(Channel channel, EventExecutor executor) {
    super(executor);
    if (channel == null) {
      throw new NullPointerException("channel");
    this.channel = channel;
  }
  @Override
 protected EventExecutor executor() {
    EventExecutor e = super.executor();
    if (e == null) {
      return channel().eventLoop();
    } else {
      return e;
    }
  }
```

```
@Override
public ChannelFuture addListener(GenericFutureListener<? extends Future<? super Void>> listener) {
  super.addListener(listener);
  return this;
}
@Override
public ChannelFuture addListeners(GenericFutureListener<? extends Future<? super Void>>... listeners) {
  super.addListeners(listeners);
  return this:
}
@Override
public ChannelFuture removeListener(GenericFutureListener<? extends Future<? super Void>> listener) {
  super.removeListener(listener);
  return this;
}
@Override
public ChannelFuture removeListeners(GenericFutureListener<? extends Future<? super Void>>... listeners) {
  super.removeListeners(listeners);
  return this;
}
@Override
public ChannelFuture syncUninterruptibly() {
  return this;
}
@Override
public ChannelFuture sync() throws InterruptedException {
  return this;
}
@Override
public ChannelFuture await() throws InterruptedException {
  return this;
}
@Override
public ChannelFuture awaitUninterruptibly() {
  return this;
}
@Override
public Channel channel() {
  return channel;
}
```

```
@Override
 public Void getNow() {
    return null;
  }
}
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package io.netty.buffer;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;
/**
* A derived buffer which simply forwards all data access requests to its
* parent. It is recommended to use {@link ByteBuf#duplicate()} instead
* of calling the constructor explicitly.
public class DuplicatedByteBuf extends AbstractDerivedByteBuf {
 private final ByteBuf buffer;
 public DuplicatedByteBuf(ByteBuf buffer) {
    super(buffer.maxCapacity());
    if (buffer instanceof DuplicatedByteBuf) {
      this.buffer = ((DuplicatedByteBuf) buffer).buffer;
    } else {
      this.buffer = buffer;
```

```
}
  setIndex(buffer.readerIndex(), buffer.writerIndex());
}
@Override
public ByteBuf unwrap() {
  return buffer;
}
@Override
public ByteBufAllocator alloc() {
  return buffer.alloc();
}
@Override
public ByteOrder order() {
  return buffer.order();
}
@Override
public boolean isDirect() {
  return buffer.isDirect();
@Override
public int capacity() {
  return buffer.capacity();
}
@Override
public ByteBuf capacity(int newCapacity) {
  buffer.capacity(newCapacity);
  return this;
}
@Override
public boolean hasArray() {
  return buffer.hasArray();
}
@Override
public byte[] array() {
  return buffer.array();
}
@Override
public int arrayOffset() {
```

```
return buffer.arrayOffset();
}
@Override
public boolean hasMemoryAddress() {
  return buffer.hasMemoryAddress();
}
@Override
public long memoryAddress() {
  return buffer.memoryAddress();
}
@Override
public byte getByte(int index) {
  return _getByte(index);
}
@Override
protected byte _getByte(int index) {
  return buffer.getByte(index);
}
@Override
public short getShort(int index) {
  return _getShort(index);
@Override
protected short _getShort(int index) {
  return buffer.getShort(index);
}
@Override
public int getUnsignedMedium(int index) {
  return _getUnsignedMedium(index);
}
@Override
protected int _getUnsignedMedium(int index) {
  return buffer.getUnsignedMedium(index);
}
@Override
public int getInt(int index) {
  return _getInt(index);
}
```

```
@Override
protected int _getInt(int index) {
  return buffer.getInt(index);
}
@Override
public long getLong(int index) {
  return _getLong(index);
}
@Override
protected long _getLong(int index) {
  return buffer.getLong(index);
}
@Override
public ByteBuf copy(int index, int length) {
  return buffer.copy(index, length);
}
@Override
public ByteBuf slice(int index, int length) {
  return buffer.slice(index, length);
}
@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
  buffer.getBytes(index, dst, dstIndex, length);
  return this;
}
@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
  buffer.getBytes(index, dst, dstIndex, length);
  return this;
}
@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
  buffer.getBytes(index, dst);
  return this;
}
@Override
public ByteBuf setByte(int index, int value) {
  _setByte(index, value);
  return this;
}
```

```
@Override
protected void _setByte(int index, int value) {
  buffer.setByte(index, value);
}
@Override
public ByteBuf setShort(int index, int value) {
  _setShort(index, value);
  return this;
}
@Override
protected void _setShort(int index, int value) {
  buffer.setShort(index, value);
}
@Override
public ByteBuf setMedium(int index, int value) {
  _setMedium(index, value);
  return this;
}
@Override
protected void _setMedium(int index, int value) {
  buffer.setMedium(index, value);
}
@Override
public ByteBuf setInt(int index, int value) {
  _setInt(index, value);
  return this;
}
@Override
protected void _setInt(int index, int value) {
  buffer.setInt(index, value);
}
@Override
public ByteBuf setLong(int index, long value) {
  _setLong(index, value);
  return this;
}
@Override
protected void _setLong(int index, long value) {
  buffer.setLong(index, value);
```

```
}
@Override
public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
  buffer.setBytes(index, src, srcIndex, length);
  return this;
}
@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
  buffer.setBytes(index, src, srcIndex, length);
  return this;
}
@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
  buffer.setBytes(index, src);
  return this;
}
@Override
public ByteBuf getBytes(int index, OutputStream out, int length)
     throws IOException {
  buffer.getBytes(index, out, length);
  return this;
}
@Override
public int getBytes(int index, GatheringByteChannel out, int length)
     throws IOException {
  return buffer.getBytes(index, out, length);
}
@Override
public int setBytes(int index, InputStream in, int length)
     throws IOException {
  return buffer.setBytes(index, in, length);
}
@Override
public int setBytes(int index, ScatteringByteChannel in, int length)
     throws IOException {
  return buffer.setBytes(index, in, length);
}
@Override
public int nioBufferCount() {
  return buffer.nioBufferCount();
```

```
}
  @Override
 public ByteBuffer[] nioBuffers(int index, int length) {
    return buffer.nioBuffers(index, length);
  }
  @Override
 public ByteBuffer internalNioBuffer(int index, int length) {
    return nioBuffer(index, length);
  }
  @Override
 public int forEachByte(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByte(index, length, processor);
  }
  @Override
 public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByteDesc(index, length, processor);
  }
}
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package io.netty.buffer;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;
```

```
* A derived buffer which exposes its parent's sub-region only. It is
* recommended to use {@link ByteBuf#slice()} and
* {@link ByteBuf#slice(int, int)} instead of calling the constructor
* explicitly.
*/
public class SlicedByteBuf extends AbstractDerivedByteBuf {
 private final ByteBuf buffer;
 private final int adjustment;
 private final int length;
 public SlicedByteBuf(ByteBuf buffer, int index, int length) {
    super(length);
    if (index < 0 || index > buffer.capacity() - length) {
      throw new IndexOutOfBoundsException(buffer.toString() + ".slice(" + index + ", " + length + ')');
    }
    if (buffer instanceof SlicedByteBuf) {
      this.buffer = ((SlicedByteBuf) buffer).buffer;
      adjustment = ((SlicedByteBuf) buffer).adjustment + index;
    } else if (buffer instanceof DuplicatedByteBuf) {
      this.buffer = buffer.unwrap();
      adjustment = index;
    } else {
      this.buffer = buffer;
      adjustment = index;
    this.length = length;
    writerIndex(length);
  }
  @Override
 public ByteBuf unwrap() {
    return buffer;
  }
  @Override
 public ByteBufAllocator alloc() {
    return buffer.alloc();
  }
  @Override
 public ByteOrder order() {
    return buffer.order();
  }
```

```
@Override
public boolean isDirect() {
  return buffer.isDirect();
}
@Override
public int capacity() {
  return length;
@Override
public ByteBuf capacity(int newCapacity) {
  throw new UnsupportedOperationException("sliced buffer");
}
@Override
public boolean hasArray() {
  return buffer.hasArray();
}
@Override
public byte[] array() {
  return buffer.array();
@Override
public int arrayOffset() {
  return buffer.arrayOffset() + adjustment;
}
@Override
public boolean hasMemoryAddress() {
  return buffer.hasMemoryAddress();
}
@Override
public long memoryAddress() {
  return buffer.memoryAddress() + adjustment;
}
@Override
protected byte _getByte(int index) {
  return buffer.getByte(index + adjustment);
}
@Override
protected short _getShort(int index) {
  return buffer.getShort(index + adjustment);
```

```
}
@Override
protected int _getUnsignedMedium(int index) {
  return buffer.getUnsignedMedium(index + adjustment);
}
@Override
protected int _getInt(int index) {
  return buffer.getInt(index + adjustment);
}
@Override
protected long _getLong(int index) {
  return buffer.getLong(index + adjustment);
}
@Override
public ByteBuf duplicate() {
  ByteBuf duplicate = buffer.slice(adjustment, length);
  duplicate.setIndex(readerIndex(), writerIndex());
  return duplicate;
}
@Override
public ByteBuf copy(int index, int length) {
  checkIndex(index, length);
  return buffer.copy(index + adjustment, length);
}
@Override
public ByteBuf slice(int index, int length) {
  checkIndex(index, length);
  if (length == 0) {
     return Unpooled.EMPTY_BUFFER;
  return buffer.slice(index + adjustment, length);
}
@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
  checkIndex(index, length);
  buffer.getBytes(index + adjustment, dst, dstIndex, length);
  return this;
}
@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
```

```
checkIndex(index, length);
  buffer.getBytes(index + adjustment, dst, dstIndex, length);
  return this;
}
@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
  checkIndex(index, dst.remaining());
  buffer.getBytes(index + adjustment, dst);
  return this;
}
@Override
protected void _setByte(int index, int value) {
  buffer.setByte(index + adjustment, value);
}
@Override
protected void _setShort(int index, int value) {
  buffer.setShort(index + adjustment, value);
}
@Override
protected void _setMedium(int index, int value) {
  buffer.setMedium(index + adjustment, value);
}
@Override
protected void _setInt(int index, int value) {
  buffer.setInt(index + adjustment, value);
}
@Override
protected void _setLong(int index, long value) {
  buffer.setLong(index + adjustment, value);
}
@Override
public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
  checkIndex(index, length);
  buffer.setBytes(index + adjustment, src, srcIndex, length);
  return this;
}
@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
  checkIndex(index, length);
  buffer.setBytes(index + adjustment, src, srcIndex, length);
```

```
return this;
}
@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
  checkIndex(index, src.remaining());
  buffer.setBytes(index + adjustment, src);
  return this;
}
@Override
public ByteBuf getBytes(int index, OutputStream out, int length) throws IOException {
  checkIndex(index, length);
  buffer.getBytes(index+adjustment,\,out,\,length);\\
  return this;
}
@Override
public int getBytes(int index, GatheringByteChannel out, int length) throws IOException {
  checkIndex(index, length);
  return buffer.getBytes(index + adjustment, out, length);
}
@Override
public int setBytes(int index, InputStream in, int length) throws IOException {
  checkIndex(index, length);
  return buffer.setBytes(index + adjustment, in, length);
}
@Override
public int setBytes(int index, ScatteringByteChannel in, int length) throws IOException {
  checkIndex(index, length);
  return buffer.setBytes(index + adjustment, in, length);
}
@Override
public int nioBufferCount() {
  return buffer.nioBufferCount();
}
@Override
public ByteBuffer nioBuffer(int index, int length) {
  checkIndex(index, length);
  return buffer.nioBuffer(index + adjustment, length);
}
@Override
public ByteBuffer[] nioBuffers(int index, int length) {
```

```
checkIndex(index, length);
    return buffer.nioBuffers(index + adjustment, length);
  }
  @Override
 public ByteBuffer internalNioBuffer(int index, int length) {
    checkIndex(index, length);
    return nioBuffer(index, length);
  }
  @Override
 public int forEachByte(int index, int length, ByteBufProcessor processor) {
    int ret = buffer.forEachByte(index + adjustment, length, processor);
    if (ret >= adjustment) {
      return ret - adjustment;
    } else {
      return -1;
  }
  @Override
 public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    int ret = buffer.forEachByteDesc(index + adjustment, length, processor);
    if (ret >= adjustment) {
      return ret - adjustment;
    } else {
      return -1;
    }
  }
}
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package io.netty.handler.codec.marshalling;
import org.jboss.marshalling.ByteInput;
```

```
import java.io.IOException;
/**
* {@link ByteInput} implementation which wraps another {@link ByteInput} and throws a {@link
TooBigObjectException}
* if the read limit was reached.
class LimitingByteInput implements ByteInput {
 // Use a static instance here to remove the overhead of fillStacktrace
  private static final TooBigObjectException EXCEPTION = new TooBigObjectException();
  private final ByteInput input;
  private final long limit;
  private long read;
  public LimitingByteInput(ByteInput input, long limit) {
    if (limit \ll 0) {
       throw new IllegalArgumentException("The limit MUST be > 0");
    this.input = input;
    this.limit = limit;
  }
  @Override
  public void close() throws IOException {
    // Nothing to do
  }
  @Override
  public int available() throws IOException {
    return readable(input.available());
  }
  @Override
  public int read() throws IOException {
    int readable = readable(1);
    if (readable > 0) {
       int b = input.read();
       read++;
      return b;
    } else {
       throw EXCEPTION;
    }
  }
  @Override
```

```
public int read(byte[] array) throws IOException {
    return read(array, 0, array.length);
  }
  @Override
 public int read(byte[] array, int offset, int length) throws IOException {
    int readable = readable(length);
    if (readable > 0) {
      int i = input.read(array, offset, readable);
      read += i:
      return i;
    } else {
      throw EXCEPTION;
    }
  }
  @Override
 public long skip(long bytes) throws IOException {
    int readable = readable((int) bytes);
    if (readable > 0) {
      long i = input.skip(readable);
      read += i;
      return i;
    } else {
      throw EXCEPTION;
    }
  }
 private int readable(int length) {
    return (int) Math.min(length, limit - read);
  }
 /**
  * Exception that will get thrown if the {@link Object} is to big to unmarshall
  */
 static final class TooBigObjectException extends IOException {
    private static final long serialVersionUID = 1L;
  }
}
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```

```
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*/
package io.netty.handler.codec.sctp;
import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;
import io.netty.channel.ChannelHandlerContext;
import io.netty.channel.ChannelInboundHandler;
import io.netty.channel.sctp.SctpMessage;
import io.netty.handler.codec.MessageToMessageDecoder;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
/**
* {@link MessageToMessageDecoder} which will take care of handle fragmented {@link SctpMessage}s, so
* only <strong>complete</strong> {@link SctpMessage}s will be forwarded to the next
* {@link ChannelInboundHandler}.
public class SctpMessageCompletionHandler extends MessageToMessageDecoder<SctpMessage> {
 private final Map<Integer, ByteBuf> fragments = new HashMap<Integer, ByteBuf>();
  @Override
 protected void decode(ChannelHandlerContext ctx, SctpMessage msg, List<Object> out) throws Exception {
    final ByteBuf byteBuf = msg.content();
    final int protocolIdentifier = msg.protocolIdentifier();
    final int streamIdentifier = msg.streamIdentifier();
    final boolean isComplete = msg.isComplete();
    ByteBuf frag;
    if (fragments.containsKey(streamIdentifier)) {
      frag = fragments.remove(streamIdentifier);
    } else {
      frag = Unpooled.EMPTY_BUFFER;
    if (isComplete && !frag.isReadable()) {
      //data chunk is not fragmented
      out.add(msg);
    } else if (!isComplete && frag.isReadable()) {
```

//more message to complete

```
fragments.put(streamIdentifier, Unpooled.wrappedBuffer(frag, byteBuf));
    } else if (isComplete && frag.isReadable()) {
      //last message to complete
      fragments.remove(streamIdentifier);
      SctpMessage assembledMsg = new SctpMessage(
           protocolIdentifier,
           streamIdentifier,
           Unpooled.wrappedBuffer(frag, byteBuf));
      out.add(assembledMsg);
    } else {
      //first incomplete message
      fragments.put(streamIdentifier, byteBuf);
    byteBuf.retain();
  }
}
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package io.netty.handler.codec;
import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;
/**
* A set of commonly used delimiters for {@link DelimiterBasedFrameDecoder}.
public final class Delimiters {
  * Returns a {@code NUL (0x00)} delimiter, which could be used for
  * Flash XML socket or any similar protocols.
 public static ByteBuf[] nulDelimiter() {
    return new ByteBuf[] {
         Unpooled.wrappedBuffer(new byte[] { 0 }) };
```

```
}
  /**
  * Returns {@code CR ('\r')} and {@code LF ('\n')} delimiters, which could
  * be used for text-based line protocols.
 public static ByteBuf[] lineDelimiter() {
    return new ByteBuf[] {
         Unpooled.wrappedBuffer(new byte[] { '\r', '\n' }),
         Unpooled.wrappedBuffer(new byte[] { '\n' }),
    };
  }
 private Delimiters() {
    // Unused
  }
}
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package io.netty.handler.codec;
import io.netty.buffer.ByteBuf;
import io.netty.channel.ChannelHandlerContext;
import java.util.List;
/**
* A decoder that splits the received {@link ByteBuf}s by one or more
* delimiters. It is particularly useful for decoding the frames which ends
* with a delimiter such as {@link Delimiters#nulDelimiter() NUL} or
* {@linkplain Delimiters#lineDelimiter() newline characters}.
* <h3>Predefined delimiters</h3>
* {@link Delimiters} defines frequently used delimiters for convenience' sake.
```

```
* <h3>Specifying more than one delimiter</h3>
* 
* {@link DelimiterBasedFrameDecoder} allows you to specify more than one
* delimiter. If more than one delimiter is found in the buffer, it chooses
* the delimiter which produces the shortest frame. For example, if you have
* the following data in the buffer:
* 
* +-----+
* | ABC\nDEF\r\n |
* +-----
* 
* a {@link DelimiterBasedFrameDecoder}({@link Delimiters#lineDelimiter()} Delimiters.lineDelimiter()})
* will choose {@code '\n'} as the first delimiter and produce two frames:
* 
* +----+
* | ABC | DEF |
* +----+
* 
* rather than incorrectly choosing {@code \r\n'} as the first delimiter:
* 
* +----+
* | ABC\nDEF |
* +-----
* 
public class DelimiterBasedFrameDecoder extends ByteToMessageDecoder {
 private final ByteBuf[] delimiters;
 private final int maxFrameLength;
 private final boolean stripDelimiter;
 private final boolean failFast;
 private boolean discardingTooLongFrame;
 private int tooLongFrameLength;
 /** Set only when decoding with "\n" and "\r\n" as the delimiter. */
 private final LineBasedFrameDecoder lineBasedDecoder;
  * Creates a new instance.
  * @param maxFrameLength the maximum length of the decoded frame.
                 A {@link TooLongFrameException} is thrown if
                 the length of the frame exceeds this value.
  * @param delimiter the delimiter
 public DelimiterBasedFrameDecoder(int maxFrameLength, ByteBuf delimiter) {
   this(maxFrameLength, true, delimiter);
 }
```

```
/**
* Creates a new instance.
* @param maxFrameLength the maximum length of the decoded frame.
                A {@link TooLongFrameException} is thrown if
                the length of the frame exceeds this value.
* @param stripDelimiter whether the decoded frame should strip out the
                delimiter or not
* @param delimiter the delimiter
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, ByteBuf delimiter) {
  this(maxFrameLength, stripDelimiter, true, delimiter);
/**
* Creates a new instance.
* @param maxFrameLength the maximum length of the decoded frame.
                A {@link TooLongFrameException} is thrown if
                the length of the frame exceeds this value.
* @param stripDelimiter whether the decoded frame should strip out the
                delimiter or not
* @param failFast If <tt>true</tt>, a {@link TooLongFrameException} is
            thrown as soon as the decoder notices the length of the
            frame will exceed <tt>maxFrameLength</tt> regardless of
            whether the entire frame has been read.
            If <tt>false</tt>, a {@link TooLongFrameException} is
            thrown after the entire frame that exceeds
            <tt>maxFrameLength</tt> has been read.
* @param delimiter the delimiter
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, boolean failFast,
    ByteBuf delimiter) {
  this(maxFrameLength, stripDelimiter, failFast, new ByteBuf[] {
       delimiter.slice(delimiter.readerIndex(), delimiter.readableBytes())});
}
/**
* Creates a new instance.
* @param maxFrameLength the maximum length of the decoded frame.
                A {@link TooLongFrameException} is thrown if
                the length of the frame exceeds this value.
* @param delimiters the delimiters
```

```
public DelimiterBasedFrameDecoder(int maxFrameLength, ByteBuf... delimiters) {
  this(maxFrameLength, true, delimiters);
}
/**
* Creates a new instance.
* @param maxFrameLength the maximum length of the decoded frame.
                A {@link TooLongFrameException} is thrown if
                the length of the frame exceeds this value.
* @param stripDelimiter whether the decoded frame should strip out the
                delimiter or not
* @param delimiters the delimiters
public DelimiterBasedFrameDecoder(
     int maxFrameLength, boolean stripDelimiter, ByteBuf... delimiters) {
  this(maxFrameLength, stripDelimiter, true, delimiters);
* Creates a new instance.
* @param maxFrameLength the maximum length of the decoded frame.
                A {@link TooLongFrameException} is thrown if
                the length of the frame exceeds this value.
* @param stripDelimiter whether the decoded frame should strip out the
                delimiter or not
* @param failFast If <tt>true</tt>, a {@link TooLongFrameException} is
            thrown as soon as the decoder notices the length of the
            frame will exceed <tt>maxFrameLength</tt> regardless of
            whether the entire frame has been read.
            If <tt>false</tt>, a {@link TooLongFrameException} is
            thrown after the entire frame that exceeds
            <tt>maxFrameLength</tt> has been read.
* @param delimiters the delimiters
public DelimiterBasedFrameDecoder(
     int maxFrameLength, boolean stripDelimiter, boolean failFast, ByteBuf... delimiters) {
  validateMaxFrameLength(maxFrameLength);
  if (delimiters == null) {
     throw new NullPointerException("delimiters");
  if (delimiters.length == 0) {
    throw new IllegalArgumentException("empty delimiters");
  }
  if (isLineBased(delimiters) && !isSubclass()) {
     lineBasedDecoder = new LineBasedFrameDecoder(maxFrameLength, stripDelimiter, failFast);
```

```
this.delimiters = null;
  } else {
     this.delimiters = new ByteBuf[delimiters.length];
     for (int i = 0; i < delimiters.length; i ++) {
       ByteBuf d = delimiters[i];
       validateDelimiter(d);
       this.delimiters[i] = d.slice(d.readerIndex(), d.readableBytes());
     }
     lineBasedDecoder = null;
  this.maxFrameLength = maxFrameLength;
  this.stripDelimiter = stripDelimiter;
  this.failFast = failFast:
}
/** Returns true if the delimiters are "\n" and "\r\n". */
private static boolean isLineBased(final ByteBuf[] delimiters) {
  if (delimiters.length != 2) {
     return false;
  ByteBuf a = delimiters[0];
  ByteBuf b = delimiters[1];
  if (a.capacity() < b.capacity()) {
     a = delimiters[1];
     b = delimiters[0];
  return a.capacity() == 2 && b.capacity() == 1
       && a.getByte(0) == \r' && a.getByte(1) == \n'
       && b.getByte(0) == \n';
}
* Return {@code true} if the current instance is a subclass of DelimiterBasedFrameDecoder
*/
private boolean isSubclass() {
  return getClass() != DelimiterBasedFrameDecoder.class;
}
@Override
protected final void decode(ChannelHandlerContext ctx, ByteBuf in, List<Object> out) throws Exception {
  Object decoded = decode(ctx, in);
  if (decoded != null) {
     out.add(decoded);
}
* Create a frame out of the {@link ByteBuf} and return it.
```

```
* @param ctx
                        the {@link ChannelHandlerContext} which this {@link ByteToMessageDecoder}
belongs to
  * @param buffer
                         the {@link ByteBuf} from which to read data
  * @return frame
                         the {@link ByteBuf} which represent the frame or {@code null} if no frame could
                  be created.
  */
 protected Object decode(ChannelHandlerContext ctx, ByteBuf buffer) throws Exception {
   if (lineBasedDecoder != null) {
      return lineBasedDecoder.decode(ctx, buffer);
   // Try all delimiters and choose the delimiter which yields the shortest frame.
   int minFrameLength = Integer.MAX_VALUE;
    ByteBuf minDelim = null;
    for (ByteBuf delim: delimiters) {
      int frameLength = indexOf(buffer, delim);
      if (frameLength >= 0 && frameLength < minFrameLength) {
        minFrameLength = frameLength;
        minDelim = delim:
      }
   if (minDelim != null) {
      int minDelimLength = minDelim.capacity();
      ByteBuf frame;
      if (discardingTooLongFrame) {
        // We've just finished discarding a very large frame.
        // Go back to the initial state.
        discardingTooLongFrame = false;
        buffer.skipBytes(minFrameLength + minDelimLength);
        int tooLongFrameLength = this.tooLongFrameLength;
        this.tooLongFrameLength = 0;
        if (!failFast) {
           fail(ctx, tooLongFrameLength);
        }
        return null;
      }
      if (minFrameLength > maxFrameLength) {
        // Discard read frame.
        buffer.skipBytes(minFrameLength + minDelimLength);
        fail(ctx, minFrameLength);
        return null;
      }
```

if (stripDelimiter) {

```
frame = buffer.readBytes(minFrameLength);
       buffer.skipBytes(minDelimLength);
     } else {
       frame = buffer.readBytes(minFrameLength + minDelimLength);
     }
    return frame;
  } else {
    if (!discardingTooLongFrame) {
       if (buffer.readableBytes() > maxFrameLength) {
         // Discard the content of the buffer until a delimiter is found.
         tooLongFrameLength = buffer.readableBytes();
         buffer.skipBytes(buffer.readableBytes());
         discardingTooLongFrame = true;
         if (failFast) {
            fail(ctx, tooLongFrameLength);
         }
       }
     } else {
       // Still discarding the buffer since a delimiter is not found.
       tooLongFrameLength += buffer.readableBytes();
       buffer.skipBytes(buffer.readableBytes());
     }
    return null;
  }
}
private void fail(ChannelHandlerContext ctx, long frameLength) {
  if (frameLength > 0) {
    ctx.fireExceptionCaught(
         new TooLongFrameException(
              "frame length exceeds " + maxFrameLength +
              ": " + frameLength + " - discarded"));
  } else {
    ctx.fireExceptionCaught(
         new TooLongFrameException(
              "frame length exceeds " + maxFrameLength +
              " - discarding"));
  }
}
* Returns the number of bytes between the readerIndex of the haystack and
* the first needle found in the haystack. -1 is returned if no needle is
* found in the haystack.
*/
private static int indexOf(ByteBuf haystack, ByteBuf needle) {
  for (int i = haystack.readerIndex(); i < haystack.writerIndex(); i ++) {
```

```
int haystackIndex = i;
      int needleIndex;
      for (needleIndex = 0; needleIndex < needle.capacity(); needleIndex ++) {
         if (haystack.getByte(haystackIndex) != needle.getByte(needleIndex)) {
           break;
         } else {
           haystackIndex ++;
           if (haystackIndex == haystack.writerIndex() &&
              needleIndex != needle.capacity() - 1) {
              return -1;
           }
         }
      }
      if (needleIndex == needle.capacity()) {
        // Found the needle from the haystack!
         return i - haystack.readerIndex();
      }
    }
    return -1;
  }
 private static void validateDelimiter(ByteBuf delimiter) {
    if (delimiter == null) {
      throw new NullPointerException("delimiter");
    if (!delimiter.isReadable()) {
      throw new IllegalArgumentException("empty delimiter");
    }
  }
 private static void validateMaxFrameLength(int maxFrameLength) {
    if (maxFrameLength <= 0) {
      throw new IllegalArgumentException(
           "maxFrameLength must be a positive integer: " +
           maxFrameLength);
    }
  }
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```

}

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package io.netty.handler.ssl;
* Event that is fired once the SSL handshake is complete, which may be because it was successful or there
* was an error.
public final class SslHandshakeCompletionEvent {
 public static final SslHandshakeCompletionEvent SUCCESS = new SslHandshakeCompletionEvent();
 private final Throwable cause;
  * Creates a new event that indicates a successful handshake.
 private SslHandshakeCompletionEvent() {
   cause = null;
 }
 /**
  * Creates a new event that indicates an unsuccessful handshake.
  * Use {@link #SUCCESS} to indicate a successful handshake.
 public SslHandshakeCompletionEvent(Throwable cause) {
   if (cause == null) {
      throw new NullPointerException("cause");
    }
   this.cause = cause;
 }
  * Return {@code true} if the handshake was successful
  */
 public boolean isSuccess() {
   return cause == null;
 }
 /**
  * Return the {@link Throwable} if {@link #isSuccess()} returns {@code false}
  * and so the handshake failed.
```

```
public Throwable cause() {
    return cause;
}
```

# 1.77 nm-mercury-data-objects 4.2.0-1

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# 1.78 oasm-mercury-data-objects 1.9.0-2

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# 1.79 offercacher-application 3.58.0-2

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```
/*! jQuery UI - v1.9.0 - 2012-10-05
```

- \* http://jqueryui.com
- \* Includes: jquery.ui.core.js, jquery.ui.widget.js, jquery.ui.mouse.js, jquery.ui.position.js, jquery.ui.accordion.js, jquery.ui.autocomplete.js, jquery.ui.button.js, jquery.ui.datepicker.js, jquery.ui.dialog.js, jquery.ui.draggable.js, jquery.ui.droppable.js, jquery.ui.effect-blind.js, jquery.ui.effect-bounce.js, jquery.ui.effect-clip.js, jquery.ui.effect-drop.js, jquery.ui.effect-explode.js, jquery.ui.effect-fold.js, jquery.ui.effect-highlight.js, jquery.ui.effect-pulsate.js, jquery.ui.effect-scale.js, jquery.ui.effect-shake.js, jquery.ui.effect-slide.js, jquery.ui.effect-transfer.js, jquery.ui.menu.js, jquery.ui.progressbar.js, jquery.ui.resizable.js, jquery.ui.selectable.js, jquery.ui.slider.js, jquery.ui.sortable.js, jquery.ui.spinner.js, jquery.ui.tabs.js, jquery.ui.tooltip.js
- \* Copyright (c) 2012 jQuery Foundation and other contributors Licensed MIT \*/

```
/*! jQuery v1.8.2 jquery.com | jquery.org/license */
```

/\*\*

- \* @preserve jquery.layout 1.3.0 Release Candidate 30.62
- \* \$Date: 2012-08-04 08:00:00 (Thu, 23 Aug 2012) \$
- \* \$Rev: 303006 \$

\*

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\*

- \* Changelog: http://layout.jquery-dev.net/changelog.cfm#1.3.0.rc30.62
- \* NOTE: This is a short-term release to patch a couple of bugs.
- \* These bugs are listed as officially fixed in RC30.7, which will be released shortly.

\*

- \* Docs: http://layout.jquery-dev.net/documentation.html
- \* Tips: http://layout.jquery-dev.net/tips.html
- \* Help: http://groups.google.com/group/jquery-ui-layout

\*/

```
* jquery.layout.state 1.0
* $Date: 2011-07-16 08:00:00 (Sat, 16 July 2011) $
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* @dependancies: UI Layout 1.3.0.rc30.1 or higher
* @dependancies: $.ui.cookie (above)
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/**
* jquery.layout.buttons 1.0
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* @support: http://groups.google.com/group/jquery-ui-layout
* Docs: [ to come ]
* Tips: [ to come ]
* jquery.layout.browserZoom 1.0
* $Date: 2011-12-29 08:00:00 (Thu, 29 Dec 2011) $
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* @dependancies: UI Layout 1.3.0.rc30.1 or higher
* @support: http://groups.google.com/group/jquery-ui-layout
* @todo: Extend logic to handle other problematic zooming in browsers
* @todo: Add hotkey/mousewheel bindings to _instantly_ respond to these zoom event
```

```
// +-----+ \\
// and; Raphaël 2.1.0 - JavaScript Vector Library
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* Launch: November 2008
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```

# 1.87 scala-parser-combinators\_2.11 1.0.3

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## 1.88 scala-reflect 2.10.2

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# 1.89 Simple Logging Facade for Java (SLF4J)

## 1.7.2

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# 1.100 spring-beans 3.2.1.RELEASE

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# 1.101 spring-context-support 3.1.1.RELEASE

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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 "";
}
```

1.8.1

```
@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 javax.xml.transform.ErrorListener;
import\ javax.xml.transform.Transformer Exception;
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 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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import java.io.Serializable;
```

```
import java.util.concurrent.Callable;
import java.util.concurrent.Future;
import java.util.concurrent.FutureTask;
import java.util.concurrent.ThreadFactory;
import org.springframework.util.Assert;
import org.springframework.util.ConcurrencyThrottleSupport;
import org.springframework.util.CustomizableThreadCreator;
import org.springframework.util.concurrent.ListenableFuture;
import org.springframework.util.concurrent.ListenableFutureTask;
/**
* {@link TaskExecutor} implementation that fires up a new Thread for each task,
* executing it asynchronously.
* Supports limiting concurrent threads through the "concurrencyLimit"
* bean property. By default, the number of concurrent threads is unlimited.
* <b>NOTE: This implementation does not reuse threads!</b> Consider a
* thread-pooling TaskExecutor implementation instead, in particular for
* executing a large number of short-lived tasks.
* @author Juergen Hoeller
* @since 2.0
* @see #setConcurrencyLimit
* @see SyncTaskExecutor
* @see org.springframework.scheduling.concurrent.ThreadPoolTaskExecutor
* @see org.springframework.scheduling.commonj.WorkManagerTaskExecutor
@SuppressWarnings("serial")
public class SimpleAsyncTaskExecutor extends CustomizableThreadCreator implements
AsyncListenableTaskExecutor, Serializable {
/**
 * Permit any number of concurrent invocations: that is, don't throttle concurrency.
public static final int UNBOUNDED_CONCURRENCY =
ConcurrencyThrottleSupport.UNBOUNDED_CONCURRENCY;
/**
 * Switch concurrency 'off': that is, don't allow any concurrent invocations.
public static final int NO_CONCURRENCY = ConcurrencyThrottleSupport.NO_CONCURRENCY;
/** Internal concurrency throttle used by this executor */
private final ConcurrencyThrottleAdapter concurrencyThrottle = new ConcurrencyThrottleAdapter();
```

```
/**
* Create a new SimpleAsyncTaskExecutor with default thread name prefix.
public SimpleAsyncTaskExecutor() {
super();
}
/**
* Create a new SimpleAsyncTaskExecutor with the given thread name prefix.
* @param threadNamePrefix the prefix to use for the names of newly created threads
public SimpleAsyncTaskExecutor(String threadNamePrefix) {
super(threadNamePrefix);
}
/**
* Create a new SimpleAsyncTaskExecutor with the given external thread factory.
* @param threadFactory the factory to use for creating new Threads
public SimpleAsyncTaskExecutor(ThreadFactory threadFactory) {
this.threadFactory = threadFactory;
}
/**
* Specify an external factory to use for creating new Threads,
* instead of relying on the local properties of this executor.
* You may specify an inner ThreadFactory bean or also a ThreadFactory reference
* obtained from JNDI (on a Java EE 6 server) or some other lookup mechanism.
* @see #setThreadNamePrefix
* @see #setThreadPriority
public void setThreadFactory(ThreadFactory threadFactory) {
this.threadFactory = threadFactory;
}
/**
* Return the external factory to use for creating new Threads, if any.
public final ThreadFactory getThreadFactory() {
return this.threadFactory;
}
* Set the maximum number of parallel accesses allowed.
```

```
* -1 indicates no concurrency limit at all.
* In principle, this limit can be changed at runtime,
* although it is generally designed as a config time setting.
* NOTE: Do not switch between -1 and any concrete limit at runtime,
* as this will lead to inconsistent concurrency counts: A limit
* of -1 effectively turns off concurrency counting completely.
* @see #UNBOUNDED CONCURRENCY
public void setConcurrencyLimit(int concurrencyLimit) {
this.concurrencyThrottle.setConcurrencyLimit(concurrencyLimit);
}
/**
* Return the maximum number of parallel accesses allowed.
public final int getConcurrencyLimit() {
return this.concurrencyThrottle.getConcurrencyLimit();
/**
* Return whether this throttle is currently active.
* @return {@code true} if the concurrency limit for this instance is active
* @see #getConcurrencyLimit()
* @see #setConcurrencyLimit
public final boolean isThrottleActive() {
return this.concurrencyThrottle.isThrottleActive();
}
/**
* Executes the given task, within a concurrency throttle
* if configured (through the superclass's settings).
* @see #doExecute(Runnable)
*/
@Override
public void execute(Runnable task) {
execute(task, TIMEOUT_INDEFINITE);
* Executes the given task, within a concurrency throttle
* if configured (through the superclass's settings).
* Executes urgent tasks (with 'immediate' timeout) directly,
* bypassing the concurrency throttle (if active). All other
* tasks are subject to throttling.
* @see #TIMEOUT_IMMEDIATE
* @see #doExecute(Runnable)
```

```
*/
@Override
public void execute(Runnable task, long startTimeout) {
Assert.notNull(task, "Runnable must not be null");
if (isThrottleActive() && startTimeout > TIMEOUT_IMMEDIATE) {
 this.concurrencyThrottle.beforeAccess();
 doExecute(new ConcurrencyThrottlingRunnable(task));
}
else {
 doExecute(task);
}
}
@Override
public Future<?> submit(Runnable task) {
FutureTask<Object> future = new FutureTask<Object>(task, null);
execute(future, TIMEOUT_INDEFINITE);
return future;
}
@Override
public <T> Future<T> submit(Callable<T> task) {
FutureTask<T> future = new FutureTask<T>(task);
execute(future, TIMEOUT INDEFINITE);
return future;
}
@Override
public ListenableFuture<?> submitListenable(Runnable task) {
ListenableFutureTask<Object> future = new ListenableFutureTask<Object>(task, null);
execute(future, TIMEOUT_INDEFINITE);
return future;
@Override
public <T> ListenableFuture<T> submitListenable(Callable<T> task) {
ListenableFutureTask<T> future = new ListenableFutureTask<T>(task);
execute(future, TIMEOUT_INDEFINITE);
return future;
}
* Template method for the actual execution of a task.
* The default implementation creates a new Thread and starts it.
* @param task the Runnable to execute
* @see #setThreadFactory
* @see #createThread
* @see java.lang.Thread#start()
```

```
*/
protected void doExecute(Runnable task) {
Thread thread = (this.threadFactory!= null? this.threadFactory.newThread(task): createThread(task));
thread.start();
/**
* Subclass of the general ConcurrencyThrottleSupport class,
* making {@code beforeAccess()} and {@code afterAccess()}
* visible to the surrounding class.
private static class ConcurrencyThrottleAdapter extends ConcurrencyThrottleSupport {
@Override
protected void beforeAccess() {
 super.beforeAccess();
@Override
protected void afterAccess() {
 super.afterAccess();
}
/**
* This Runnable calls { @code afterAccess()} after the
* target Runnable has finished its execution.
private class ConcurrencyThrottlingRunnable implements Runnable {
private final Runnable target;
public ConcurrencyThrottlingRunnable(Runnable target) {
 this.target = target;
}
@Override
public void run() {
 try {
 this.target.run();
 finally {
 concurrencyThrottle.afterAccess();
 }
}
```

```
}
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package org.springframework.core.env;
/**
* Parses a {@code String[]} of command line arguments in order to populate a
* {@link CommandLineArgs} object.
* <h3>Working with option arguments</h3>
* Option arguments must adhere to the exact syntax:
* --optName[=optValue]
* That is, options must be prefixed with "{@code --}", and may or may not specify a value.
* If a value is specified, the name and value must be separated <em>without spaces</em>
* by an equals sign ("=").
* <h4>Valid examples of option arguments</h4>
* 
* --foo
* --foo=bar
* --foo="bar then baz"
* --foo=bar,baz,biz
* <h4>Invalid examples of option arguments</h4>
* 
* -foo
* --foo bar
* --foo = bar
* --foo=bar --foo=baz --foo=biz
* <h3>Working with non-option arguments</h3>
* Any and all arguments specified at the command line without the "{@code --}" option
* prefix will be considered as "non-option arguments" and made available through the
```

```
* {@link CommandLineArgs#getNonOptionArgs()} method.
* @author Chris Beams
* @since 3.1
class SimpleCommandLineArgsParser {
/**
 * Parse the given {@code String} array based on the rules described {@linkplain
 * SimpleCommandLineArgsParser above}, returning a fully-populated
 * {@link CommandLineArgs} object.
 * @param args command line arguments, typically from a {@code main()} method
public CommandLineArgs parse(String... args) {
 CommandLineArgs commandLineArgs = new CommandLineArgs();
 for (String arg : args) {
 if (arg.startsWith("--")) {
  String optionText = arg.substring(2, arg.length());
  String optionName;
  String optionValue = null;
  if (optionText.contains("=")) {
  optionName = optionText.substring(0, optionText.indexOf("="));
  optionValue = optionText.substring(optionText.indexOf("=")+1, optionText.length());
  else {
  optionName = optionText;
  if\ (optionName.isEmpty()\ \|\ (optionValue\ != null\ \&\&\ optionValue.isEmpty()))\ \{
  throw new IllegalArgumentException("Invalid argument syntax: " + arg);
  commandLineArgs.addOptionArg(optionName, optionValue);
 }
 else {
  commandLineArgs.addNonOptionArg(arg);
 }
 return commandLineArgs;
}
}
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*/
package org.springframework.core.env;
import java.util.List;
/**
* {@link CommandLinePropertySource} implementation backed by a simple String array.
* <h3>Purpose</h3>
* This {@code CommandLinePropertySource} implementation aims to provide the simplest
* possible approach to parsing command line arguments. As with all {@code
* CommandLinePropertySource} implementations, command line arguments are broken into two
* distinct groups: <em>option arguments</em> and <em>non-option arguments</em>, as
* described below <em>(some sections copied from Javadoc for {@link SimpleCommandLineArgsParser})</em>:
* <h3>Working with option arguments</h3>
* Option arguments must adhere to the exact syntax:
* --optName[=optValue]
* That is, options must be prefixed with "{@code --}", and may or may not specify a value.
* If a value is specified, the name and value must be separated <em>without spaces</em>
* by an equals sign ("=").
* <h4>Valid examples of option arguments</h4>
* class="code">
* --foo
* --foo=bar
* --foo="bar then baz"
* --foo=bar,baz,biz
* <h4>Invalid examples of option arguments</h4>
* 
* -foo
* --foo bar
* --foo = bar
* --foo=bar --foo=baz --foo=biz
* <h3>Working with non-option arguments</h3>
* Any and all arguments specified at the command line without the "{@code --}" option
* prefix will be considered as "non-option arguments" and made available through the
* {@link #getNonOptionArgs()} method.
```

```
* <h2>Typical usage</h2>
* class="code">
* public static void main(String[] args) {
   PropertySource<?> ps = new SimpleCommandLinePropertySource(args);
   // ...
* }
* See {@link CommandLinePropertySource} for complete general usage examples.
* <h3>Beyond the basics</h3>
* When more fully-featured command line parsing is necessary, consider using
* the provided {@link JOptCommandLinePropertySource}, or implement your own
* {@code CommandLinePropertySource} against the command line parsing library of your
* choice!
* @author Chris Beams
* @since 3.1
* @see CommandLinePropertySource
* @see JOptCommandLinePropertySource
public class SimpleCommandLinePropertySource extends CommandLinePropertySource<CommandLineArgs> {
/**
* Create a new {@code SimpleCommandLinePropertySource} having the default name
* and backed by the given {@code String[]} of command line arguments.
* @see CommandLinePropertySource#COMMAND LINE PROPERTY SOURCE NAME
 * @ see CommandLinePropertySource(Object)
public SimpleCommandLinePropertySource(String... args) {
super(new SimpleCommandLineArgsParser().parse(args));
}
/**
* Create a new {@code SimpleCommandLinePropertySource} having the given name
* and backed by the given {@code String[]} of command line arguments.
*/
public SimpleCommandLinePropertySource(String name, String[] args) {
super(name, new SimpleCommandLineArgsParser().parse(args));
}
/**
* Get the property names for the option arguments.
*/
@Override
public String[] getPropertyNames() {
return source.getOptionNames().toArray(new String[source.getOptionNames().size()]);
}
```

```
@Override
protected boolean containsOption(String name) {
 return this.source.containsOption(name);
@Override
protected List<String> getOptionValues(String name) {
 return this.source.getOptionValues(name);
}
@Override
protected List<String> getNonOptionArgs() {
 return this.source.getNonOptionArgs();
}
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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.
* 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");
 }
}
}
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*/
package org.springframework.core.type.classreading;
import java.io.IOException;
import org.springframework.core.io.DefaultResourceLoader;
import org.springframework.core.io.Resource;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;
* Simple implementation of the {@link MetadataReaderFactory} interface,
* creating a new ASM {@link org.springframework.asm.ClassReader} for every request.
* @author Juergen Hoeller
* @since 2.5
public class SimpleMetadataReaderFactory implements MetadataReaderFactory {
private final ResourceLoader resourceLoader;
/**
 * Create a new SimpleMetadataReaderFactory for the default class loader.
public SimpleMetadataReaderFactory() {
```

```
this.resourceLoader = new DefaultResourceLoader();
}
/**
* Create a new SimpleMetadataReaderFactory for the given resource loader.
* @param resourceLoader the Spring ResourceLoader to use
* (also determines the ClassLoader to use)
public SimpleMetadataReaderFactory(ResourceLoader resourceLoader) {
this.resourceLoader = (resourceLoader != null ? resourceLoader : new DefaultResourceLoader());
}
/**
* Create a new SimpleMetadataReaderFactory for the given class loader.
* @param classLoader the ClassLoader to use
public SimpleMetadataReaderFactory(ClassLoader classLoader) {
this.resourceLoader =
  (classLoader!= null? new DefaultResourceLoader(classLoader): new DefaultResourceLoader());
}
* Return the ResourceLoader that this MetadataReaderFactory has been
 * constructed with.
public final ResourceLoader getResourceLoader() {
return this.resourceLoader;
}
@Override
public MetadataReader getMetadataReader(String className) throws IOException {
String resourcePath = ResourceLoader.CLASSPATH_URL_PREFIX +
 Class Utils. convert Class Name To Resource Path (class Name) + Class Utils. CLASS\_FILE\_SUFFIX;
return getMetadataReader(this.resourceLoader.getResource(resourcePath));
}
@Override
public MetadataReader getMetadataReader(Resource resource) throws IOException {
return new SimpleMetadataReader(resource, this.resourceLoader.getClassLoader());
}
}
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```

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package org.springframework.core.type.classreading;
import java.io.BufferedInputStream;
import java.io.IOException;
import java.io.InputStream;
import org.springframework.asm.ClassReader;
import org.springframework.core.NestedIOException;
import org.springframework.core.io.Resource;
import org.springframework.core.type.AnnotationMetadata;
import org.springframework.core.type.ClassMetadata;
/**
* {@link MetadataReader} implementation based on an ASM
* {@link org.springframework.asm.ClassReader}.
* Package-visible in order to allow for repackaging the ASM library
* without effect on users of the {@code core.type} package.
* @author Juergen Hoeller
* @author Costin Leau
* @since 2.5
final class SimpleMetadataReader implements MetadataReader {
private final Resource resource;
private final ClassMetadata classMetadata;
private final AnnotationMetadata annotationMetadata;
SimpleMetadataReader(Resource resource, ClassLoader classLoader) throws IOException {
 InputStream is = new BufferedInputStream(resource.getInputStream());
 ClassReader classReader;
 try {
```

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```
classReader = new ClassReader(is);
catch (IllegalArgumentException ex) {
 throw new NestedIOException("ASM ClassReader failed to parse class file - " +
  "probably due to a new Java class file version that isn't supported yet: " + resource, ex);
finally {
 is.close();
AnnotationMetadataReadingVisitor visitor = new AnnotationMetadataReadingVisitor(classLoader);
classReader.accept(visitor, ClassReader.SKIP_DEBUG);
this.annotationMetadata = visitor;
// (since AnnotationMetadataReadingVisitor extends ClassMetadataReadingVisitor)
this.classMetadata = visitor;
this.resource = resource;
@Override
public Resource getResource() {
return this.resource;
@Override
public ClassMetadata getClassMetadata() {
return this.classMetadata;
@Override
public AnnotationMetadata getAnnotationMetadata() {
return this.annotationMetadata;
}
```

# 1.103 spring-core 3.1.1.RELEASE

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\*/

package org.springframework.web.context;

import javax.servlet.ServletContext;

import org.springframework.context.ApplicationContext;

```
* Interface to provide configuration for a web application. This is read-only while
* the application is running, but may be reloaded if the implementation supports this.
* This interface adds a { @code getServletContext()} method to the generic
* ApplicationContext interface, and defines a well-known application attribute name
* that the root context must be bound to in the bootstrap process.
* Like generic application contexts, web application contexts are hierarchical.
* There is a single root context per application, while each servlet in the application
* (including a dispatcher servlet in the MVC framework) has its own child context.
* In addition to standard application context lifecycle capabilities,
* WebApplicationContext implementations need to detect {@link ServletContextAware}
* beans and invoke the {@code setServletContext} method accordingly.
* @author Rod Johnson
* @author Juergen Hoeller
* @since January 19, 2001
* @see ServletContextAware#setServletContext
public interface WebApplicationContext extends ApplicationContext {
/**
 * Context attribute to bind root WebApplicationContext to on successful startup.
 * Note: If the startup of the root context fails, this attribute can contain
 * an exception or error as value. Use WebApplicationContextUtils for convenient
 * lookup of the root WebApplicationContext.
 * @see org.springframework.web.context.support.WebApplicationContextUtils#getWebApplicationContext
org.springframework.web.context.support.WebApplicationContextUtils#getRequiredWebApplicationContext
String ROOT_WEB_APPLICATION_CONTEXT_ATTRIBUTE = WebApplicationContext.class.getName() +
".ROOT":
/**
 * Scope identifier for request scope: "request".
 * Supported in addition to the standard scopes "singleton" and "prototype".
String SCOPE_REQUEST = "request";
/**
 * Scope identifier for session scope: "session".
 * Supported in addition to the standard scopes "singleton" and "prototype".
```

```
String SCOPE_SESSION = "session";
/**
 * Scope identifier for global session scope: "globalSession".
 * Supported in addition to the standard scopes "singleton" and "prototype".
String SCOPE GLOBAL SESSION = "globalSession";
/**
 * Scope identifier for the global web application scope: "application".
 * Supported in addition to the standard scopes "singleton" and "prototype".
String SCOPE_APPLICATION = "application";
/**
 * Name of the ServletContext environment bean in the factory.
 * @see javax.servlet.ServletContext
String SERVLET_CONTEXT_BEAN_NAME = "servletContext";
/**
 * Name of the ServletContext/PortletContext init-params environment bean in the factory.
 * Note: Possibly merged with ServletConfig/PortletConfig parameters.
 * ServletConfig parameters override ServletContext parameters of the same name.
 * @see javax.servlet.ServletContext#getInitParameterNames()
 * @ see javax.servlet.ServletContext#getInitParameter(String)
 * @see javax.servlet.ServletConfig#getInitParameterNames()
 * @see javax.servlet.ServletConfig#getInitParameter(String)
String CONTEXT_PARAMETERS_BEAN_NAME = "contextParameters";
 * Name of the ServletContext/PortletContext attributes environment bean in the factory.
 * @ see javax.servlet.ServletContext#getAttributeNames()
 * @see javax.servlet.ServletContext#getAttribute(String)
String CONTEXT_ATTRIBUTES_BEAN_NAME = "contextAttributes";
/**
 * Return the standard Servlet API ServletContext for this application.
 * Also available for a Portlet application, in addition to the PortletContext.
 */
ServletContext getServletContext();
}
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```

```
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*/
package org.springframework.web.context.support;
import java.io.File;
import javax.servlet.ServletContext;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ApplicationObjectSupport;
import org.springframework.web.context.ServletContextAware;
import org.springframework.web.context.WebApplicationContext;
import org.springframework.web.util.WebUtils;
/**
* Convenient superclass for application objects running in a WebApplicationContext.
* Provides {@code getWebApplicationContext()}, {@code getServletContext()},
* and {@code getTempDir()} methods.
* @author Juergen Hoeller
* @since 28.08.2003
* @see SpringBeanAutowiringSupport
public abstract class WebApplicationObjectSupport extends ApplicationObjectSupport
 implements ServletContextAware {
private ServletContext servletContext;
@Override
public final void setServletContext(ServletContext servletContext) {
 if (servletContext != this.servletContext) {
 this.servletContext = servletContext;
 if (servletContext != null) {
  initServletContext(servletContext);
  }
 }
```

```
}
/**
* Overrides the base class behavior to enforce running in an ApplicationContext.
* All accessors will throw IllegalStateException if not running in a context.
* @see #getApplicationContext()
* @see #getMessageSourceAccessor()
* @see #getWebApplicationContext()
* @see #getServletContext()
* @see #getTempDir()
@Override
protected boolean isContextRequired() {
return true;
/**
* Calls {@link #initServletContext(javax.servlet.ServletContext)} if the
* given ApplicationContext is a {@link WebApplicationContext}.
@Override
protected void initApplicationContext(ApplicationContext context) {
super.initApplicationContext(context);
if (this.servletContext == null && context instanceof WebApplicationContext) {
 this.servletContext = ((WebApplicationContext) context).getServletContext();
 if (this.servletContext != null) {
 initServletContext(this.servletContext);
 }
* Subclasses may override this for custom initialization based
* on the ServletContext that this application object runs in.
* The default implementation is empty. Called by
* { @link #initApplicationContext(org.springframework.context.ApplicationContext)}
* as well as {@link #setServletContext(javax.servlet.ServletContext)}.
* @param servletContext the ServletContext that this application object runs in
* (never {@code null})
*/
protected void initServletContext(ServletContext servletContext) {
* Return the current application context as WebApplicationContext.
* <b>NOTE:</b> Only use this if you actually need to access
* WebApplicationContext-specific functionality. Preferably use
* { @code getApplicationContext()} or { @code getServletContext()}
```

```
* else, to be able to run in non-WebApplicationContext environments as well.
* @throws IllegalStateException if not running in a WebApplicationContext
 * @see #getApplicationContext()
protected final WebApplicationContext getWebApplicationContext() throws IllegalStateException {
 ApplicationContext ctx = getApplicationContext();
if (ctx instanceof WebApplicationContext) {
 return (WebApplicationContext) getApplicationContext();
else if (isContextRequired()) {
 throw new IllegalStateException("WebApplicationObjectSupport instance [" + this +
  "] does not run in a WebApplicationContext but in: " + ctx);
 }
else {
 return null;
 }
}
/**
* Return the current ServletContext.
* @throws IllegalStateException if not running within a ServletContext
protected final ServletContext getServletContext() throws IllegalStateException {
if (this.servletContext != null) {
 return this.servletContext:
ServletContext servletContext = getWebApplicationContext().getServletContext();
if (servletContext == null && isContextRequired()) {
 throw new IllegalStateException("WebApplicationObjectSupport instance [" + this +
  "] does not run within a ServletContext. Make sure the object is fully configured!");
 }
return servletContext;
* Return the temporary directory for the current web application,
* as provided by the servlet container.
* @return the File representing the temporary directory
 * @throws IllegalStateException if not running within a ServletContext
 * @see org.springframework.web.util.WebUtils#getTempDir(javax.servlet.ServletContext)
protected final File getTempDir() throws IllegalStateException {
return WebUtils.getTempDir(getServletContext());
}
}
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```

```
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* limitations under the License.
*/
package org.springframework.web.context.support;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;
import org.springframework.context.support.StaticApplicationContext;
import org.springframework.core.env.ConfigurableEnvironment;
import org.springframework.core.io.Resource;
import org.springframework.core.io.support.ResourcePatternResolver;
import org.springframework.ui.context.Theme;
import org.springframework.ui.context.ThemeSource;
import org.springframework.ui.context.support.UiApplicationContextUtils;
import org.springframework.web.context.ConfigurableWebApplicationContext;
import org.springframework.web.context.ServletConfigAware;
import org.springframework.web.context.ServletContextAware;
* Static {@link org.springframework.web.context.WebApplicationContext}
* implementation for testing. Not intended for use in production applications.
* Implements the {@link org.springframework,web.context.ConfigurableWebApplicationContext}
* interface to allow for direct replacement of an {@link XmlWebApplicationContext},
* despite not actually supporting external configuration files.
* Interprets resource paths as servlet context resources, i.e. as paths beneath
* the web application root. Absolute paths, e.g. for files outside the web app root,
* can be accessed via "file:" URLs, as implemented by
* {@link org.springframework.core.io.DefaultResourceLoader}.
* In addition to the special beans detected by
* {@link org.springframework.context.support.AbstractApplicationContext},
* this class detects a bean of type {@link org.springframework.ui.context.ThemeSource}
* in the context, under the special bean name "themeSource".
```

```
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.ui.context.ThemeSource
public class StaticWebApplicationContext extends StaticApplicationContext
 implements ConfigurableWebApplicationContext, ThemeSource {
private ServletContext servletContext;
private ServletConfig servletConfig;
private String namespace;
private ThemeSource themeSource;
public StaticWebApplicationContext() {
 setDisplayName("Root WebApplicationContext");
}
 * Set the ServletContext that this WebApplicationContext runs in.
 */
@Override
public void setServletContext(ServletContext servletContext) {
 this.servletContext = servletContext;
}
@Override
public ServletContext getServletContext() {
 return this.servletContext;
}
@Override
public void setServletConfig(ServletConfig servletConfig) {
 this.servletConfig = servletConfig;
 if (servletConfig != null && this.servletContext == null) {
 this.servletContext = servletConfig.getServletContext();
 }
}
@Override
public ServletConfig getServletConfig() {
 return this.servletConfig;
}
```

```
@Override
public void setNamespace(String namespace) {
this.namespace = namespace;
if (namespace != null) {
 setDisplayName("WebApplicationContext for namespace "" + namespace + """);
}
@Override
public String getNamespace() {
return this.namespace;
/**
* The {@link StaticWebApplicationContext} class does not support this method.
* @throws UnsupportedOperationException <b>always</b>
*/
@Override
public void setConfigLocation(String configLocation) {
if (configLocation != null) {
 throw new UnsupportedOperationException("StaticWebApplicationContext does not support config locations");
}
}
/**
* The {@link StaticWebApplicationContext} class does not support this method.
* @throws UnsupportedOperationException <b>always</b>
*/
@Override
public void setConfigLocations(String[] configLocations) {
if (configLocations != null) {
 throw new UnsupportedOperationException("StaticWebApplicationContext does not support config locations");
}
@Override
public String[] getConfigLocations() {
return null;
/**
* Register request/session scopes, a {@link ServletContextAwareProcessor}, etc.
*/
@Override
protected void postProcessBeanFactory(ConfigurableListableBeanFactory beanFactory) {
beanFactory.addBeanPostProcessor(new ServletContextAwareProcessor(this.servletContext, this.servletConfig));
bean Factory. ignore Dependency Interface (Servlet Context Aware. class); \\
```

```
beanFactory.ignoreDependencyInterface(ServletConfigAware.class);
WebApplicationContextUtils.registerWebApplicationScopes(beanFactory, this.servletContext);
WebApplicationContextUtils.registerEnvironmentBeans(beanFactory, this.servletContext, this.servletConfig);
/**
* This implementation supports file paths beneath the root of the ServletContext.
* @see ServletContextResource
*/
@Override
protected Resource getResourceByPath(String path) {
return new ServletContextResource(this.servletContext, path);
/**
* This implementation supports pattern matching in unexpanded WARs too.
* @see ServletContextResourcePatternResolver
*/
@Override
protected ResourcePatternResolver getResourcePatternResolver() {
return new ServletContextResourcePatternResolver(this);
}
/**
* Create and return a new {@link StandardServletEnvironment}.
@Override
protected ConfigurableEnvironment createEnvironment() {
return new StandardServletEnvironment();
}
/**
* Initialize the theme capability.
*/
@Override
protected void onRefresh() {
this.themeSource = UiApplicationContextUtils.initThemeSource(this);
@Override
protected void initPropertySources() {
super.initPropertySources();
Web Application Context Utils. in it Servlet Property Sources (\\
 this.getEnvironment().getPropertySources(), this.servletContext, this.servletConfig);\\
```

@Override

```
public Theme getTheme(String themeName) {
 return this.themeSource.getTheme(themeName);
}
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* limitations under the License.
*/
package org.springframework.web.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;
/**
* {@link org.springframework.web.context.WebApplicationContext} implementation
* which takes its configuration from XML documents, understood by an
* {@link org.springframework.beans.factory.xml.XmlBeanDefinitionReader}.
* This is essentially the equivalent of
* {@link org.springframework.context.support.AbstractXmlApplicationContext}
* for a web environment.
* By default, the configuration will be taken from "/WEB-INF/applicationContext.xml"
* for the root context, and "/WEB-INF/test-servlet.xml" for a context with the namespace
* "test-servlet" (like for a DispatcherServlet instance with the servlet-name "test").
* The config location defaults can be overridden via the "contextConfigLocation"
* context-param of {@link org.springframework.web.context.ContextLoader} and servlet
* init-param of {@link org.springframework.web.servlet.FrameworkServlet}. Config locations
* can either denote concrete files like "/WEB-INF/context.xml" or Ant-style patterns
* like "/WEB-INF/*-context.xml" (see {@link org.springframework.util.PathMatcher}
* javadoc for pattern details).
```

```
* 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.
* <b>For a WebApplicationContext that reads in a different bean definition format,
* create an analogous subclass of {@link AbstractRefreshableWebApplicationContext}.</b>
* Such a context implementation can be specified as "contextClass" context-param
* for ContextLoader or "contextClass" init-param for FrameworkServlet.
* @author Rod Johnson
* @author Juergen Hoeller
* @see #setNamespace
* @see #setConfigLocations
* @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
* @see org.springframework.web.context.ContextLoader#initWebApplicationContext
* @see org.springframework.web.servlet.FrameworkServlet#initWebApplicationContext
public class XmlWebApplicationContext extends AbstractRefreshableWebApplicationContext {
/** Default config location for the root context */
public static final String DEFAULT_CONFIG_LOCATION = "/WEB-INF/applicationContext.xml";
/** Default prefix for building a config location for a namespace */
public static final String DEFAULT_CONFIG_LOCATION_PREFIX = "/WEB-INF/";
/** Default suffix for building a config location for a namespace */
public static final String DEFAULT_CONFIG_LOCATION_SUFFIX = ".xml";
/**
 * Loads the bean definitions via an XmlBeanDefinitionReader.
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
 * @see #initBeanDefinitionReader
 * @see #loadBeanDefinitions
@Override
protected void loadBeanDefinitions(DefaultListableBeanFactory beanFactory) throws BeansException, IOException
 // Create a new XmlBeanDefinitionReader for the given BeanFactory.
 XmlBeanDefinitionReader beanDefinitionReader = new XmlBeanDefinitionReader(beanFactory);
 // Configure the bean definition reader with this context's
 // resource loading environment.
 beanDefinitionReader.setEnvironment(this.getEnvironment());
 beanDefinitionReader.setResourceLoader(this);
 beanDefinitionReader.setEntityResolver(new ResourceEntityResolver(this));
```

```
// Allow a subclass to provide custom initialization of the reader,
// then proceed with actually loading the bean definitions.
initBeanDefinitionReader(beanDefinitionReader);
loadBeanDefinitions(beanDefinitionReader);
/**
* Initialize the bean definition reader used for loading the bean
* definitions of this context. Default implementation is empty.
* Can be overridden in subclasses, e.g. for turning off XML validation
* or using a different XmlBeanDefinitionParser implementation.
* @param beanDefinitionReader the bean definition reader used by this context
* @see org.springframework.beans.factory.xml,XmlBeanDefinitionReader#setValidationMode
* @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader#setDocumentReaderClass
protected void initBeanDefinitionReader(XmlBeanDefinitionReader beanDefinitionReader) {
}
/**
* Load the bean definitions with the given XmlBeanDefinitionReader.
* The lifecycle of the bean factory is handled by the refreshBeanFactory method;
* therefore this method is just supposed to load and/or register bean definitions.
* Delegates to a ResourcePatternResolver for resolving location patterns
* into Resource instances.
* @throws java.io.IOException if the required XML document isn't found
* @see #refreshBeanFactory
* @see #getConfigLocations
* @see #getResources
* @see #getResourcePatternResolver
protected void loadBeanDefinitions(XmlBeanDefinitionReader reader) throws IOException {
String[] configLocations = getConfigLocations();
if (configLocations != null) {
 for (String configLocation: configLocations) {
 reader.loadBeanDefinitions(configLocation);
 }
}
}
/**
* The default location for the root context is "/WEB-INF/applicationContext.xml",
* and "/WEB-INF/test-servlet.xml" for a context with the namespace "test-servlet"
* (like for a DispatcherServlet instance with the servlet-name "test").
*/
@Override
protected String[] getDefaultConfigLocations() {
if (getNamespace() != null) {
 return new String[] {DEFAULT_CONFIG_LOCATION_PREFIX + getNamespace() +
```

```
DEFAULT_CONFIG_LOCATION_SUFFIX};
 }
 else {
 return new String[] {DEFAULT_CONFIG_LOCATION};
 }
}
}
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
package org.springframework.web.context.support;
import java.util.Arrays;
import java.util.LinkedHashSet;
import java.util.Set;
import org.springframework.beans.factory.support.BeanNameGenerator;
import org.springframework.beans.factory.support.DefaultListableBeanFactory;
import org.springframework.context.annotation.AnnotatedBeanDefinitionReader;
import org.springframework.context.annotation.AnnotationConfigUtils;
import org.springframework.context.annotation.ClassPathBeanDefinitionScanner;
import org.springframework.context.annotation.ScopeMetadataResolver;
import org.springframework.util.Assert;
import org.springframework.util.StringUtils;
import org.springframework.web.context.ContextLoader;
* {@link org.springframework.web.context.WebApplicationContext WebApplicationContext}
* implementation which accepts annotated classes as input - in particular
* {@link org.springframework.context.annotation.Configuration @Configuration}-annotated
* classes, but also plain {@link org.springframework.stereotype.Component @Component}
* classes and JSR-330 compliant classes using {@code javax.inject} annotations. Allows
* for registering classes one by one (specifying class names as config location) as well
```

\* as for classpath scanning (specifying base packages as config location).

```
* This is essentially the equivalent of
* {@link org.springframework.context.annotation.AnnotationConfigApplicationContext
* AnnotationConfigApplicationContext} for a web environment.
* To make use of this application context, the
* {@linkplain ContextLoader#CONTEXT CLASS PARAM "contextClass"} context-param for
* ContextLoader and/or "contextClass" init-param for FrameworkServlet must be set to
* the fully-qualified name of this class.
* As of Spring 3.1, this class may also be directly instantiated and injected into
* Spring's {@code DispatcherServlet} or {@code ContextLoaderListener} when using the
* new {@link org.springframework.web.WebApplicationInitializer WebApplicationInitializer}
* code-based alternative to {@code web.xml}. See its Javadoc for details and usage examples.
* Vnlike {@link XmlWebApplicationContext}, no default configuration class locations
* are assumed. Rather, it is a requirement to set the
* {@linkplain ContextLoader#CONFIG LOCATION PARAM "contextConfigLocation"}
* context-param for {@link ContextLoader} and/or "contextConfigLocation" init-param for
* FrameworkServlet. The param-value may contain both fully-qualified
* class names and base packages to scan for components. See {@link #loadBeanDefinitions}
* for exact details on how these locations are processed.
* As an alternative to setting the "contextConfigLocation" parameter, users may
* implement an {@link org.springframework.context.ApplicationContextInitializer
* ApplicationContextInitializer} and set the
* {@linkplain ContextLoader#CONTEXT INITIALIZER CLASSES PARAM "contextInitializerClasses"}
* context-param / init-param. In such cases, users should favor the {@link #refresh()}
* and {@link #scan(String...)} methods over the {@link #setConfigLocation(String)}
* method, which is primarily for use by {@code ContextLoader}.
* Note: In case of multiple {@code @Configuration} classes, later {@code @Bean}
* definitions will override ones defined in earlier loaded files. This can be leveraged
* to deliberately override certain bean definitions via an extra Configuration class.
* @author Chris Beams
* @author Juergen Hoeller
* @since 3.0
* @see org.springframework.context.annotation.AnnotationConfigApplicationContext
public class AnnotationConfigWebApplicationContext extends AbstractRefreshableWebApplicationContext {
private BeanNameGenerator beanNameGenerator;
private ScopeMetadataResolver scopeMetadataResolver;
```

private final Set<Class<?>> annotatedClasses = new LinkedHashSet<Class<?>>();

```
private final Set<String> basePackages = new LinkedHashSet<String>();
/**
* Set a custom {@link BeanNameGenerator} for use with {@link AnnotatedBeanDefinitionReader}
* and/or {@link ClassPathBeanDefinitionScanner}.
* Default is {@link org.springframework.context.annotation.AnnotationBeanNameGenerator}.
* @see AnnotatedBeanDefinitionReader#setBeanNameGenerator
* @see ClassPathBeanDefinitionScanner#setBeanNameGenerator
public void setBeanNameGenerator(BeanNameGenerator beanNameGenerator) {
this.beanNameGenerator = beanNameGenerator;
}
/**
* Return the custom {@link BeanNameGenerator} for use with {@link AnnotatedBeanDefinitionReader}
* and/or {@link ClassPathBeanDefinitionScanner}, if any.
protected BeanNameGenerator getBeanNameGenerator() {
return this.beanNameGenerator;
/**
* Set a custom {@link ScopeMetadataResolver} for use with {@link AnnotatedBeanDefinitionReader}
* and/or {@link ClassPathBeanDefinitionScanner}.
* Default is an {@link org.springframework.context.annotation.AnnotationScopeMetadataResolver}.
* @see AnnotatedBeanDefinitionReader#setScopeMetadataResolver
* @see ClassPathBeanDefinitionScanner#setScopeMetadataResolver
public void setScopeMetadataResolver(ScopeMetadataResolver scopeMetadataResolver) {
this.scopeMetadataResolver = scopeMetadataResolver;
}
/**
* Return the custom {@link ScopeMetadataResolver} for use with {@link AnnotatedBeanDefinitionReader}
* and/or {@link ClassPathBeanDefinitionScanner}, if any.
*/
protected ScopeMetadataResolver getScopeMetadataResolver() {
return this.scopeMetadataResolver;
/**
* Register one or more annotated classes to be processed.
* Note that {@link #refresh()} must be called in order for the context
```

\* annotated class more than once has no additional effect.

\* Calls to {@code register} are idempotent; adding the same

1.8.1

\* to fully process the new class.

```
* @param annotatedClasses one or more annotated classes,
* e.g. { @link org.springframework.context.annotation.Configuration @Configuration} classes
* @see #scan(String...)
* @see #loadBeanDefinitions(DefaultListableBeanFactory)
* @see #setConfigLocation(String)
* @see #refresh()
public void register(Class<?>... annotatedClasses) {
Assert.notEmpty(annotatedClasses, "At least one annotated class must be specified");
this.annotatedClasses.addAll(Arrays.asList(annotatedClasses));
}
/**
* Perform a scan within the specified base packages.
* Note that {@link #refresh()} must be called in order for the context to
* fully process the new class.
* @param basePackages the packages to check for annotated classes
* @see #loadBeanDefinitions(DefaultListableBeanFactory)
* @see #register(Class...)
* @see #setConfigLocation(String)
* @see #refresh()
public void scan(String... basePackages) {
Assert.notEmpty(basePackages, "At least one base package must be specified");
this.basePackages.addAll(Arrays.asList(basePackages));
}
/**
* Register a {@link org.springframework.beans.factory.config.BeanDefinition} for
* any classes specified by {@link #register(Class...)} and scan any packages
* specified by {@link #scan(String...)}.
* For any values specified by {@link #setConfigLocation(String)} or
* {@link #setConfigLocations(String[])}, attempt first to load each location as a
* class, registering a {@code BeanDefinition} if class loading is successful,
* and if class loading fails (i.e. a { @code ClassNotFoundException} is raised),
* assume the value is a package and attempt to scan it for annotated classes.
* Enables the default set of annotation configuration post processors, such that
* { @code @ Autowired }, { @code @ Required }, and associated annotations can be used.
* Configuration class bean definitions are registered with generated bean
* definition names unless the {@code value} attribute is provided to the stereotype
* annotation.
* @see #register(Class...)
* @see #scan(String...)
* @see #setConfigLocation(String)
* @see #setConfigLocations(String[])
* @see AnnotatedBeanDefinitionReader
* @see ClassPathBeanDefinitionScanner
```

```
*/
@Override
protected void loadBeanDefinitions(DefaultListableBeanFactory beanFactory) {
AnnotatedBeanDefinitionReader reader = new AnnotatedBeanDefinitionReader(beanFactory);
reader.setEnvironment(this.getEnvironment());
ClassPathBeanDefinitionScanner scanner = new ClassPathBeanDefinitionScanner(beanFactory);
scanner.setEnvironment(this.getEnvironment());
BeanNameGenerator beanNameGenerator = getBeanNameGenerator();
ScopeMetadataResolver scopeMetadataResolver = getScopeMetadataResolver();
if (beanNameGenerator != null) {
 reader.setBeanNameGenerator(beanNameGenerator);
 scanner.setBeanNameGenerator(beanNameGenerator);
 beanFactory.registerSingleton(
  Annotation Config Utils. CONFIGURATION\_BEAN\_NAME\_GENERATOR, bean Name Generator);
if (scopeMetadataResolver != null) {
 reader.setScopeMetadataResolver(scopeMetadataResolver);
 scanner.setScopeMetadataResolver(scopeMetadataResolver);
if (!this.annotatedClasses.isEmpty()) {
 if (logger.isInfoEnabled()) {
 logger.info("Registering annotated classes: [" +
  StringUtils.collectionToCommaDelimitedString(this.annotatedClasses) + "]");
 reader.register(this.annotatedClasses.toArray(new Class<?>[this.annotatedClasses.size()]));
}
if (!this.basePackages.isEmpty()) {
 if (logger.isInfoEnabled()) {
 logger.info("Scanning base packages: [" +
  StringUtils.collectionToCommaDelimitedString(this.basePackages) + "]");
 scanner.scan(this.basePackages.toArray(new String[this.basePackages.size()]));
}
String[] configLocations = getConfigLocations();
if (configLocations != null) {
 for (String configLocation : configLocations) {
  Class<?>clazz = getClassLoader().loadClass(configLocation);
  if (logger.isInfoEnabled()) {
  logger.info("Successfully resolved class for [" + configLocation + "]");
  }
  reader.register(clazz);
```

```
catch (ClassNotFoundException ex) {
   if (logger.isDebugEnabled()) {
   logger.debug("Could not load class for config location [" + configLocation +
     "] - trying package scan. " + ex);
   int count = scanner.scan(configLocation);
   if (logger.isInfoEnabled()) {
   if (count == 0) {
    logger.info("No annotated classes found for specified class/package [" + configLocation + "]");
   }
   else {
    logger.info("Found" + count + " annotated classes in package [" + configLocation + "]");
   }
  }
}
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* limitations under the License.
*/
package org.springframework.web.context.support;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;
import org.springframework.beans.factory.support.DefaultListableBeanFactory;
import org.springframework.context.support.GenericApplicationContext;
import org.springframework.core.env.ConfigurableEnvironment;
import org.springframework.core.io.Resource;
import org.springframework.core.io.support.ResourcePatternResolver;
import org.springframework.ui.context.Theme;
```

```
import org.springframework.ui.context.ThemeSource;
import org.springframework.ui.context.support.UiApplicationContextUtils;
import org.springframework.util.ObjectUtils;
import org.springframework.util.StringUtils;
import org.springframework.web.context.ConfigurableWebApplicationContext;
import org.springframework.web.context.ConfigurableWebEnvironment;
import org.springframework.web.context.ServletContextAware;
/**
* Subclass of {@link GenericApplicationContext}, suitable for web environments.
* Implements the
* {@link org.springframework.web.context.ConfigurableWebApplicationContext},
* but is not intended for declarative setup in {@code web.xml}. Instead,
* it is designed for programmatic setup, for example for building nested contexts or
* for use within Spring 3.1 {@link org.springframework.web.WebApplicationInitializer}s.
* <b>If you intend to implement a WebApplicationContext that reads bean definitions
* from configuration files, consider deriving from AbstractRefreshableWebApplicationContext,
* reading the bean definitions in an implementation of the {@code loadBeanDefinitions}
* method.</b>
* Interprets resource paths as servlet context resources, i.e. as paths beneath
* the web application root. Absolute paths, e.g. for files outside the web app root,
* can be accessed via "file:" URLs, as implemented by AbstractApplicationContext.
* In addition to the special beans detected by
* {@link org.springframework.context.support.AbstractApplicationContext},
* this class detects a ThemeSource bean in the context, with the name "themeSource".
* @author Juergen Hoeller
* @author Chris Beams
* @since 1.2
public class GenericWebApplicationContext extends GenericApplicationContext
 implements ConfigurableWebApplicationContext, ThemeSource {
private ServletContext servletContext;
private ThemeSource themeSource;
 * Create a new GenericWebApplicationContext.
 * @see #setServletContext
 * @see #registerBeanDefinition
 * @see #refresh
```

```
public GenericWebApplicationContext() {
super();
}
/**
* Create a new GenericWebApplicationContext for the given ServletContext.
* @param servletContext the ServletContext to run in
* @see #registerBeanDefinition
* @see #refresh
public GenericWebApplicationContext(ServletContext servletContext) {
this.servletContext = servletContext;
}
/**
* Create a new GenericWebApplicationContext with the given DefaultListableBeanFactory.
* @param beanFactory the DefaultListableBeanFactory instance to use for this context
* @see #setServletContext
* @see #registerBeanDefinition
* @see #refresh
public GenericWebApplicationContext(DefaultListableBeanFactory beanFactory) {
super(beanFactory);
/**
* Create a new GenericWebApplicationContext with the given DefaultListableBeanFactory.
\hbox{$^*$ @param bean Factory the Default Listable Bean Factory instance to use for this context}\\
* @param servletContext the ServletContext to run in
* @see #registerBeanDefinition
* @see #refresh
public GenericWebApplicationContext(DefaultListableBeanFactory beanFactory, ServletContext servletContext) {
super(beanFactory);
this.servletContext = servletContext;
* Set the ServletContext that this WebApplicationContext runs in.
*/
@Override
public void setServletContext(ServletContext servletContext) {
this.servletContext = servletContext;
}
@Override
public ServletContext getServletContext() {
```

```
return this.servletContext;
@Override
public String getApplicationName() {
return (this.servletContext != null ? this.servletContext.getContextPath() : "");
}
/**
* Create and return a new {@link StandardServletEnvironment}.
@Override
protected ConfigurableEnvironment createEnvironment() {
return new StandardServletEnvironment();
/**
* Register ServletContextAwareProcessor.
* @see ServletContextAwareProcessor
@Override
protected void postProcessBeanFactory(ConfigurableListableBeanFactory beanFactory) {
beanFactory.addBeanPostProcessor(new ServletContextAwareProcessor(this.servletContext));
bean Factory. ignore Dependency Interface (Servlet Context Aware. class); \\
WebApplicationContextUtils.registerWebApplicationScopes(beanFactory, this.servletContext);
WebApplicationContextUtils.registerEnvironmentBeans(beanFactory, this.servletContext);
}
/**
* This implementation supports file paths beneath the root of the ServletContext.
* @see ServletContextResource
@Override
protected Resource getResourceByPath(String path) {
return new ServletContextResource(this.servletContext, path);
}
* This implementation supports pattern matching in unexpanded WARs too.
* @see ServletContextResourcePatternResolver
@Override
protected ResourcePatternResolver getResourcePatternResolver() {
return new ServletContextResourcePatternResolver(this);
/**
```

```
* Initialize the theme capability.
@Override
protected void onRefresh() {
this.themeSource = UiApplicationContextUtils.initThemeSource(this);
/**
* { @inheritDoc }
* Replace {@code Servlet}-related property sources.
@Override
protected void initPropertySources() {
super.initPropertySources();
ConfigurableEnvironment env = this.getEnvironment();
if (env instanceof ConfigurableWebEnvironment) {
 ((Configurable WebEnvironment) env). in it Property Sources (\\
  this.servletContext, null);
}
}
@Override
public Theme getTheme(String themeName) {
return this.themeSource.getTheme(themeName);
}
// -----
// Pseudo-implementation of ConfigurableWebApplicationContext
@Override
public void setServletConfig(ServletConfig servletConfig) {
// no-op
}
@Override
public ServletConfig getServletConfig() {
throw new UnsupportedOperationException(
 "GenericWebApplicationContext does not support getServletConfig()");
}
@Override
public void setNamespace(String namespace) {
// no-op
}
@Override
```

```
public String getNamespace() {
 throw new UnsupportedOperationException(
  "GenericWebApplicationContext does not support getNamespace()");
}
@Override
public void setConfigLocation(String configLocation) {
 if (StringUtils.hasText(configLocation)) {
 throw new UnsupportedOperationException(
  "GenericWebApplicationContext does not support setConfigLocation(). " +
  "Do you still have an 'contextConfigLocations' init-param set?");
}
@Override
public void setConfigLocations(String[] configLocations) {
 if (!ObjectUtils.isEmpty(configLocations)) {
 throw new UnsupportedOperationException(
  "GenericWebApplicationContext does not support setConfigLocations(). " +
  "Do you still have an 'contextConfigLocations' init-param set?");
}
@Override
public String[] getConfigLocations() {
 throw new UnsupportedOperationException(
  "GenericWebApplicationContext does not support getConfigLocations()");
}
}
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* limitations under the License.
```

package org.springframework.web.context.support;

```
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;
import org.springframework.context.support.AbstractRefreshableConfigApplicationContext;
import org.springframework.core.env.ConfigurableEnvironment;
import org.springframework.core.io.Resource;
import org.springframework.core.io.support.ResourcePatternResolver;
import org.springframework.ui.context.Theme;
import org.springframework.ui.context.ThemeSource;
import org.springframework.ui.context.support.UiApplicationContextUtils;
import org.springframework.web.context.ConfigurableWebApplicationContext;
import org.springframework.web.context.ConfigurableWebEnvironment;
import org.springframework.web.context.ServletConfigAware;
import org.springframework.web.context.ServletContextAware;
/**
* {@link org.springframework.context.support.AbstractRefreshableApplicationContext}
* subclass which implements the
* {@link org.springframework.web.context.ConfigurableWebApplicationContext}
* interface for web environments. Provides a "configLocations" property,
* to be populated through the ConfigurableWebApplicationContext interface
* on web application startup.
* This class is as easy to subclass as AbstractRefreshableApplicationContext:
* All you need to implements is the {@link #loadBeanDefinitions} method;
* see the superclass javadoc for details. Note that implementations are supposed
* to load bean definitions from the files specified by the locations returned
* by the {@link #getConfigLocations} method.
* Interprets resource paths as servlet context resources, i.e. as paths beneath
* the web application root. Absolute paths, e.g. for files outside the web app root,
* can be accessed via "file:" URLs, as implemented by
* {@link org.springframework.core.io.DefaultResourceLoader}.
* In addition to the special beans detected by
* {@link org.springframework.context.support.AbstractApplicationContext},
* this class detects a bean of type {@link org.springframework.ui.context.ThemeSource}
* in the context, under the special bean name "themeSource".
* <b>This is the web context to be subclassed for a different bean definition format.</b>
* Such a context implementation can be specified as "contextClass" context-param
* for {@link org.springframework.web.context.ContextLoader} or as "contextClass"
* init-param for {@link org.springframework.web.servlet.FrameworkServlet},
* replacing the default {@link XmlWebApplicationContext}. It will then automatically
* receive the "contextConfigLocation" context-param or init-param, respectively.
```

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\* Note that WebApplicationContext implementations are generally supposed

```
* to configure themselves based on the configuration received through the
* {@link ConfigurableWebApplicationContext} interface. In contrast, a standalone
* application context might allow for configuration in custom startup code
* (for example, {@link org.springframework.context.support.GenericApplicationContext}).
* @author Juergen Hoeller
* @since 1.1.3
* @see #loadBeanDefinitions
* @see org.springframework.web.context.ConfigurableWebApplicationContext#setConfigLocations
* @see org.springframework.ui.context.ThemeSource
* @see XmlWebApplicationContext
public abstract class AbstractRefreshableWebApplicationContext extends
AbstractRefreshableConfigApplicationContext
 implements ConfigurableWebApplicationContext, ThemeSource {
/** Servlet context that this context runs in */
private ServletContext;
/** Servlet config that this context runs in, if any */
private ServletConfig servletConfig;
/** Namespace of this context, or {@code null} if root */
private String namespace;
/** the ThemeSource for this ApplicationContext */
private ThemeSource themeSource;
public AbstractRefreshableWebApplicationContext() {
 setDisplayName("Root WebApplicationContext");
}
@Override
public void setServletContext(ServletContext servletContext) {
 this.servletContext = servletContext;
}
@Override
public ServletContext getServletContext() {
 return this.servletContext;
@Override
public void setServletConfig(ServletConfig servletConfig) {
 this.servletConfig = servletConfig;
 if (servletConfig != null && this.servletContext == null) {
```

```
setServletContext(servletConfig.getServletContext());
}
@Override
public ServletConfig getServletConfig() {
return this.servletConfig;
@Override
public void setNamespace(String namespace) {
this.namespace = namespace;
if (namespace != null) {
 setDisplayName("WebApplicationContext for namespace "" + namespace + """);
}
@Override
public String getNamespace() {
return this.namespace;
@Override
public String[] getConfigLocations() {
return super.getConfigLocations();
}
@Override
public String getApplicationName() {
return (this.servletContext != null ? this.servletContext.getContextPath() : "");
}
* Create and return a new {@link StandardServletEnvironment}. Subclasses may override
* in order to configure the environment or specialize the environment type returned.
@Override
protected ConfigurableEnvironment createEnvironment() {
return new StandardServletEnvironment();
/**
* Register request/session scopes, a {@link ServletContextAwareProcessor}, etc.
*/
@Override
protected void postProcessBeanFactory(ConfigurableListableBeanFactory beanFactory) {
beanFactory.addBeanPostProcessor(new ServletContextAwareProcessor(this.servletContext, this.servletConfig));
bean Factory. ignore Dependency Interface (Servlet Context Aware. class); \\
```

```
beanFactory.ignoreDependencyInterface(ServletConfigAware.class);
WebApplicationContextUtils.registerWebApplicationScopes(beanFactory, this.servletContext);
WebApplicationContextUtils.registerEnvironmentBeans(beanFactory, this.servletContext, this.servletConfig);
/**
* This implementation supports file paths beneath the root of the ServletContext.
* @see ServletContextResource
*/
@Override
protected Resource getResourceByPath(String path) {
return new ServletContextResource(this.servletContext, path);
/**
* This implementation supports pattern matching in unexpanded WARs too.
* @see ServletContextResourcePatternResolver
*/
@Override
protected ResourcePatternResolver getResourcePatternResolver() {
return new ServletContextResourcePatternResolver(this);
}
/**
* Initialize the theme capability.
@Override
protected void onRefresh() {
this.themeSource = UiApplicationContextUtils.initThemeSource(this);
}
/**
* { @inheritDoc }
* Replace {@code Servlet}-related property sources.
@Override
protected void initPropertySources() {
super.initPropertySources();
ConfigurableEnvironment env = this.getEnvironment();
if (env instanceof ConfigurableWebEnvironment) {
 ((ConfigurableWebEnvironment)env).initPropertySources(
  this.servletContext, this.servletConfig);
}
}
```

public Theme getTheme(String themeName) {

@Override

```
return this.themeSource.getTheme(themeName);
}
}
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
package org.springframework.web.context.support;
import static
org.springframework.web.context.support.StandardServletEnvironment.SERVLET CONFIG PROPERTY SOUR
CE_NAME;
import static
org.springframework.web.context.support.StandardServletEnvironment.SERVLET CONTEXT PROPERTY SOU
RCE_NAME;
import java.io.Serializable;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.Map;
import javax.faces.context.ExternalContext;
import javax.faces.context.FacesContext;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import javax.servlet.ServletRequest;
import javax.servlet.http.HttpSession;
import org.springframework.beans.factory.ObjectFactory;
import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;
import org.springframework.core.env.MutablePropertySources;
import org.springframework.core.env.PropertySource.StubPropertySource;
import org.springframework.util.Assert;
import org.springframework.util.ClassUtils;
```

```
import org.springframework.web.context.ConfigurableWebApplicationContext;
import org.springframework.web.context.WebApplicationContext;
import org.springframework.web.context.request.RequestAttributes;
import org.springframework.web.context.request.RequestContextHolder;
import org.springframework.web.context.request.RequestScope;
import org.springframework.web.context.request.ServletRequestAttributes;
import org.springframework.web.context.request.ServletWebRequest;
import org.springframework.web.context.request.SessionScope;
import org.springframework.web.context.request.WebRequest;
/**
* Convenience methods for retrieving the root
* {@link org.springframework.web.context.WebApplicationContext} for a given
* {@code ServletContext}. This is e.g. useful for accessing a Spring
* context from within custom web views or Struts actions.
* Note that there are more convenient ways of accessing the root context for
* many web frameworks, either part of Spring or available as external library.
* This helper class is just the most generic way to access the root context.
* @author Juergen Hoeller
* @see org.springframework.web.context.ContextLoader
* @see org.springframework.web.servlet.FrameworkServlet
* @see org.springframework.web.servlet.DispatcherServlet
* @see org.springframework.web.jsf.FacesContextUtils
* @see org.springframework.web.jsf.el.SpringBeanFacesELResolver
public abstract class WebApplicationContextUtils {
private static final boolean jsfPresent =
 ClassUtils.isPresent("javax.faces.context.FacesContext", RequestContextHolder.class.getClassLoader());
/**
 * Find the root WebApplicationContext for this web application, which is
 * typically loaded via {@link org.springframework.web.context.ContextLoaderListener}.
 * Will rethrow an exception that happened on root context startup,
 * to differentiate between a failed context startup and no context at all.
 * @param sc ServletContext to find the web application context for
 * @return the root WebApplicationContext for this web app
 * @throws IllegalStateException if the root WebApplicationContext could not be found
org.springframework.web.context.WebApplicationContext#ROOT_WEB_APPLICATION_CONTEXT_ATTRIBU
TE
 */
public static WebApplicationContext getRequiredWebApplicationContext(ServletContext sc)
 throws IllegalStateException {
```

```
WebApplicationContext wac = getWebApplicationContext(sc);
 if (wac == null) {
 throw new IllegalStateException("No WebApplicationContext found: no ContextLoaderListener registered?");
 }
 return wac;
/**
 * Find the root WebApplicationContext for this web application, which is
 * typically loaded via {@link org.springframework.web.context.ContextLoaderListener}.
 * Will rethrow an exception that happened on root context startup,
 * to differentiate between a failed context startup and no context at all.
 * @param sc ServletContext to find the web application context for
 * @return the root WebApplicationContext for this web app, or {@code null} if none
 * @see
org.springframework.web.context.WebApplicationContext#ROOT_WEB_APPLICATION_CONTEXT_ATTRIBU
TE
 */
public static WebApplicationContext getWebApplicationContext(ServletContext sc) {
 return getWebApplicationContext(sc,
WebApplicationContext.ROOT WEB APPLICATION CONTEXT ATTRIBUTE);
}
/**
 * Find a custom WebApplicationContext for this web application.
 * @param sc ServletContext to find the web application context for
 * @param attrName the name of the ServletContext attribute to look for
 * @return the desired WebApplicationContext for this web app, or { @code null} if none
public static WebApplicationContext getWebApplicationContext(ServletContext sc, String attrName) {
 Assert.notNull(sc, "ServletContext must not be null");
 Object attr = sc.getAttribute(attrName);
 if (attr == null) {
 return null:
 if (attr instanceof RuntimeException) {
 throw (RuntimeException) attr;
 if (attr instanceof Error) {
 throw (Error) attr;
 if (attr instanceof Exception) {
 throw new IllegalStateException((Exception) attr);
 if (!(attr instanceof WebApplicationContext)) {
 throw new IllegalStateException("Context attribute is not of type WebApplicationContext: " + attr);
 }
 return (WebApplicationContext) attr;
```

```
}
/**
* Register web-specific scopes ("request", "session", "globalSession")
* with the given BeanFactory, as used by the WebApplicationContext.
* @param beanFactory the BeanFactory to configure
public static void registerWebApplicationScopes(ConfigurableListableBeanFactory beanFactory) {
registerWebApplicationScopes(beanFactory, null);
/**
* Register web-specific scopes ("request", "session", "globalSession", "application")
* with the given BeanFactory, as used by the WebApplicationContext.
* @param beanFactory the BeanFactory to configure
* @param sc the ServletContext that we're running within
public static void registerWebApplicationScopes(ConfigurableListableBeanFactory beanFactory, ServletContext sc)
beanFactory.registerScope(WebApplicationContext.SCOPE REQUEST, new RequestScope());
beanFactory.registerScope(WebApplicationContext.SCOPE_SESSION, new SessionScope(false));
beanFactory.registerScope(WebApplicationContext.SCOPE_GLOBAL_SESSION, new SessionScope(true));
if (sc != null) {
 ServletContextScope appScope = new ServletContextScope(sc);
 beanFactory.registerScope(WebApplicationContext.SCOPE APPLICATION, appScope);
 // Register as ServletContext attribute, for ContextCleanupListener to detect it.
 sc.setAttribute(ServletContextScope.class.getName(), appScope);
}
beanFactory.registerResolvableDependency(ServletRequest.class, new RequestObjectFactory());
beanFactory.registerResolvableDependency(HttpSession.class, new SessionObjectFactory());
beanFactory.registerResolvableDependency(WebRequest.class, new WebRequestObjectFactory());
if (jsfPresent) {
 FacesDependencyRegistrar.registerFacesDependencies(beanFactory);
}
* Register web-specific environment beans ("contextParameters", "contextAttributes")
* with the given BeanFactory, as used by the WebApplicationContext.
* @param bf the BeanFactory to configure
* @param sc the ServletContext that we're running within
public static void registerEnvironmentBeans(ConfigurableListableBeanFactory bf, ServletContext sc) {
registerEnvironmentBeans(bf, sc, null);
}
```

```
/**
 * Register web-specific environment beans ("contextParameters", "contextAttributes")
* with the given BeanFactory, as used by the WebApplicationContext.
 * @param bf the BeanFactory to configure
 * @param sc the ServletContext that we're running within
 * @param config the ServletConfig of the containing Portlet
public static void registerEnvironmentBeans(
 ConfigurableListableBeanFactory bf, ServletContext sc, ServletConfig config) {
if (sc != null && !bf.containsBean(WebApplicationContext.SERVLET_CONTEXT_BEAN_NAME)) {
 bf.registerSingleton(WebApplicationContext.SERVLET_CONTEXT_BEAN_NAME, sc);
 }
if (config != null &&
!bf.containsBean(ConfigurableWebApplicationContext.SERVLET CONFIG BEAN NAME)) {
 bf.registerSingleton(ConfigurableWebApplicationContext.SERVLET_CONFIG_BEAN_NAME, config);
if (!bf.containsBean(WebApplicationContext.CONTEXT_PARAMETERS_BEAN_NAME)) {
 Map<String, String> parameterMap = new HashMap<String, String>();
 if (sc != null) {
 Enumeration<?> paramNameEnum = sc.getInitParameterNames();
  while (paramNameEnum.hasMoreElements()) {
  String paramName = (String) paramNameEnum.nextElement();
  parameterMap.put(paramName, sc.getInitParameter(paramName));
 }
 if (config != null) {
  Enumeration<?> paramNameEnum = config.getInitParameterNames();
  while (paramNameEnum.hasMoreElements()) {
  String paramName = (String) paramNameEnum.nextElement();
  parameterMap.put(paramName, config.getInitParameter(paramName));
 bf.registerSingleton(WebApplicationContext.CONTEXT_PARAMETERS_BEAN_NAME,
  Collections.unmodifiableMap(parameterMap));
 }
if (!bf.containsBean(WebApplicationContext.CONTEXT_ATTRIBUTES_BEAN_NAME)) {
 Map<String, Object> attributeMap = new HashMap<String, Object>();
 if (sc != null) {
  Enumeration<?> attrNameEnum = sc.getAttributeNames();
  while (attrNameEnum.hasMoreElements()) {
  String attrName = (String) attrNameEnum.nextElement();
  attributeMap.put(attrName, sc.getAttribute(attrName));
  }
 }
```

```
bf.registerSingleton(WebApplicationContext.CONTEXT ATTRIBUTES BEAN NAME,
  Collections.unmodifiableMap(attributeMap));
}
/**
 * Convenient variant of {@link #initServletPropertySources(MutablePropertySources,
* ServletContext, ServletConfig)} that always provides {@code null} for the
 * {@link ServletConfig} parameter.
 * @see #initServletPropertySources(MutablePropertySources, ServletContext, ServletConfig)
public static void initServletPropertySources(
 MutablePropertySources propertySources, ServletContext servletContext) {
initServletPropertySources(propertySources, servletContext, null);
/**
* Replace { @code Servlet}-based { @link StubPropertySource stub property sources} with
 * actual instances populated with the given {@code servletContext} and
 * { @code servletConfig} objects.
 * This method is idempotent with respect to the fact it may be called any number
 * of times but will perform replacement of stub property sources with their
* corresponding actual property sources once and only once.
 * @param propertySources the {@link MutablePropertySources} to initialize (must not
 * be {@code null})
* @param servletContext the current {@link ServletContext} (ignored if {@code null}
 * or if the {@link StandardServletEnvironment#SERVLET CONTEXT PROPERTY SOURCE NAME
 * servlet context property source} has already been initialized)
* @param servletConfig the current { @link ServletConfig} (ignored if { @code null}
 * or if the {@link StandardServletEnvironment#SERVLET CONFIG PROPERTY SOURCE NAME
 * servlet config property source} has already been initialized)
 * @see org.springframework.core.env.PropertySource.StubPropertySource
 * @see org.springframework.core.env.ConfigurableEnvironment#getPropertySources()
 */
public static void initServletPropertySources(
 MutablePropertySources propertySources, ServletContext servletContext, ServletConfig servletConfig) {
Assert.notNull(propertySources, "propertySources must not be null");
if(servletContext != null &&
 propertySources.contains(SERVLET_CONTEXT_PROPERTY_SOURCE_NAME) &&
 propertySources.get(SERVLET_CONTEXT_PROPERTY_SOURCE_NAME) instanceof StubPropertySource) {
 propertySources.replace(SERVLET_CONTEXT_PROPERTY_SOURCE_NAME, new
ServletContextPropertySource(SERVLET_CONTEXT_PROPERTY_SOURCE_NAME, servletContext));
}
if(servletConfig != null &&
 propertySources.contains(SERVLET_CONFIG_PROPERTY_SOURCE_NAME) &&
 propertySources.get(SERVLET_CONFIG_PROPERTY_SOURCE_NAME) instanceof StubPropertySource) {
 propertySources.replace(SERVLET_CONFIG_PROPERTY_SOURCE_NAME, new
ServletConfigPropertySource(SERVLET_CONFIG_PROPERTY_SOURCE_NAME, servletConfig));
```

```
}
/**
* Return the current RequestAttributes instance as ServletRequestAttributes.
* @see RequestContextHolder#currentRequestAttributes()
private static ServletRequestAttributes currentRequestAttributes() {
RequestAttributes requestAttr = RequestContextHolder.currentRequestAttributes();
if (!(requestAttr instanceof ServletRequestAttributes)) {
 throw new IllegalStateException("Current request is not a servlet request");
return (ServletRequestAttributes) requestAttr;
/**
* Factory that exposes the current request object on demand.
@SuppressWarnings("serial")
private static class RequestObjectFactory implements ObjectFactory<ServletRequest>, Serializable {
@Override
public ServletRequest getObject() {
 return currentRequestAttributes().getRequest();
}
@Override
public String toString() {
 return "Current HttpServletRequest";
}
* Factory that exposes the current session object on demand.
@SuppressWarnings("serial")
private static class SessionObjectFactory implements ObjectFactory
HttpSession>, Serializable {

@Override
public HttpSession getObject() {
 return currentRequestAttributes().getRequest().getSession();
}
@Override
public String toString() {
 return "Current HttpSession";
```

```
/**
* Factory that exposes the current WebRequest object on demand.
@SuppressWarnings("serial")
private static class WebRequestObjectFactory implements ObjectFactory<WebRequest>, Serializable {
@Override
public WebRequest getObject() {
 return new ServletWebRequest(currentRequestAttributes().getRequest());
}
@Override
public String toString() {
 return "Current ServletWebRequest";
}
* Inner class to avoid hard-coded JSF dependency.
private static class FacesDependencyRegistrar {
public static void registerFacesDependencies(ConfigurableListableBeanFactory beanFactory) {
 beanFactory.registerResolvableDependency(FacesContext.class, new ObjectFactory<FacesContext>() {
 @Override
 public FacesContext getObject() {
  return FacesContext.getCurrentInstance();
 @Override
 public String toString() {
  return "Current JSF FacesContext";
 }
 beanFactory.registerResolvableDependency(ExternalContext.class, new ObjectFactory<ExternalContext>() {
 @Override
 public ExternalContext getObject() {
  return\ Faces Context.get Current Instance ().get External Context ();
 @Override
 public String toString() {
  return "Current JSF ExternalContext";
 }
 });
```

```
}
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* limitations under the License.
*/
package org.springframework.web.context;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import org.springframework.context.ConfigurableApplicationContext;
/**
* Interface to be implemented by configurable web application contexts.
* Supported by {@link ContextLoader} and
* {@link org.springframework.web.servlet.FrameworkServlet}.
* Note: The setters of this interface need to be called before an
* invocation of the {@link #refresh} method inherited from
* {@link org.springframework.context.ConfigurableApplicationContext}.
* They do not cause an initialization of the context on their own.
* @author Juergen Hoeller
* @since 05.12.2003
* @see #refresh
* @see ContextLoader#createWebApplicationContext
* @see org.springframework.web.servlet.FrameworkServlet#createWebApplicationContext
*/
public interface ConfigurableWebApplicationContext extends WebApplicationContext,
ConfigurableApplicationContext {
```

\* Prefix for ApplicationContext ids that refer to context path and/or servlet name.

```
*/
String APPLICATION_CONTEXT_ID_PREFIX = WebApplicationContext.class.getName() + ":";
* Name of the ServletConfig environment bean in the factory.
* @see javax.servlet.ServletConfig
String SERVLET_CONFIG_BEAN_NAME = "servletConfig";
/**
* Set the ServletContext for this web application context.
* Does not cause an initialization of the context: refresh needs to be
* called after the setting of all configuration properties.
* @see #refresh()
*/
void setServletContext(ServletContext servletContext);
/**
* Set the ServletConfig for this web application context.
* Only called for a WebApplicationContext that belongs to a specific Servlet.
* @see #refresh()
void setServletConfig(ServletConfig servletConfig);
* Return the ServletConfig for this web application context, if any.
ServletConfig getServletConfig();
/**
* Set the namespace for this web application context,
* to be used for building a default context config location.
* The root web application context does not have a namespace.
void setNamespace(String namespace);
* Return the namespace for this web application context, if any.
String getNamespace();
/**
* Set the config locations for this web application context in init-param style,
* i.e. with distinct locations separated by commas, semicolons or whitespace.
* If not set, the implementation is supposed to use a default for the
* given namespace or the root web application context, as appropriate.
```

```
void setConfigLocation(String configLocation);
/**
 * Set the config locations for this web application context.
 * If not set, the implementation is supposed to use a default for the
 * given namespace or the root web application context, as appropriate.
void setConfigLocations(String[] configLocations);
/**
 * Return the config locations for this web application context,
 * or {@code null} if none specified.
 */
String[] getConfigLocations();
}
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
package org.springframework.web.bind.support;
* Simple implementation of the {@link SessionStatus} interface,
* keeping the {@code complete} flag as an instance variable.
* @author Juergen Hoeller
* @since 2.5
public class SimpleSessionStatus implements SessionStatus {
private boolean complete = false;
@Override
public void setComplete() {
```

```
this.complete = true;
}
@Override
public boolean isComplete() {
 return this.complete;
}
}
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
package org.springframework.web.util;
import java.io. Serializable;
import java.net.URI;
import java.util.Collections;
import java.util.LinkedHashMap;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.regex.Matcher;
import java.util.regex.Pattern;
import org.springframework.util.Assert;
/**
* Represents a URI template. A URI template is a URI-like String that contains variables enclosed
* by braces ({@code {}}), which can be expanded to produce an actual URI.
* See {@link #expand(Map)}, {@link #expand(Object[])}, and {@link #match(String)} for example usages.
* @author Arjen Poutsma
* @author Juergen Hoeller
* @since 3.0
```

```
* @see <a href="http://bitworking.org/projects/URI-Templates/">URI Templates</a>
@SuppressWarnings("serial")
public class UriTemplate implements Serializable {
/** Captures URI template variable names. */
private static final Pattern NAMES PATTERN = Pattern.compile("\\\{([^/]+?)\)'\}");
/** Replaces template variables in the URI template. */
private static final String DEFAULT VARIABLE PATTERN = "(.*)";
private final UriComponents uriComponents;
private final List<String> variableNames;
private final Pattern matchPattern;
private final String uriTemplate;
/**
* Construct a new {@code UriTemplate} with the given URI String.
* @param uriTemplate the URI template string
public UriTemplate(String uriTemplate) {
Parser parser = new Parser(uriTemplate);
this.uriTemplate = uriTemplate;
this.variableNames = parser.getVariableNames();
this.matchPattern = parser.getMatchPattern();
this.uriComponents = UriComponentsBuilder.fromUriString(uriTemplate).build();
}
/**
* Return the names of the variables in the template, in order.
* @return the template variable names
*/
public List<String> getVariableNames() {
return this.variableNames;
}
* Given the Map of variables, expands this template into a URI. The Map keys represent variable names,
* the Map values variable values. The order of variables is not significant.
* Example:
 * 
* UriTemplate template = new UriTemplate("http://example.com/hotels/{hotel}/bookings/{booking}");
* Map<String, String&gt; uriVariables = new HashMap&lt;String, String&gt;();
```

```
* uriVariables.put("booking", "42");
* uriVariables.put("hotel", "1");
* System.out.println(template.expand(uriVariables));
* will print: <blockquote>{ @code http://example.com/hotels/1/bookings/42}</blockquote>
* @param uriVariables the map of URI variables
* @return the expanded URI
* @throws IllegalArgumentException if { @code uriVariables} is { @code null };
* or if it does not contain values for all the variable names
public URI expand(Map<String, ?> uriVariables) {
UriComponents expandedComponents = uriComponents.expand(uriVariables);
UriComponents encodedComponents = expandedComponents.encode();
return encodedComponents.toUri();
 /**
 * Given an array of variables, expand this template into a full URI. The array represent variable values.
 * The order of variables is significant.
 * Example:
 * 
 * UriTemplate template = new UriTemplate("http://example.com/hotels/{hotel}/bookings/{booking}");
 * System.out.println(template.expand("1", "42));
 * 
 * will print: <blockquote>{ @code http://example.com/hotels/1/bookings/42}</blockquote>
 * @param uriVariableValues the array of URI variables
 * @return the expanded URI
 * @throws IllegalArgumentException if { @code uriVariables} is { @code null}
 * or if it does not contain sufficient variables
public URI expand(Object... uriVariableValues) {
UriComponents expandedComponents = uriComponents.expand(uriVariableValues);
UriComponents encodedComponents = expandedComponents.encode();
return encodedComponents.toUri();
}
/**
* Indicate whether the given URI matches this template.
* @param uri the URI to match to
* @return { @code true} if it matches; { @code false} otherwise
public boolean matches(String uri) {
if (uri == null) {
 return false;
Matcher matcher = this.matchPattern.matcher(uri);
return matcher.matches();
}
```

```
/**
* Match the given URI to a map of variable values. Keys in the returned map are variable names,
* values are variable values, as occurred in the given URI.
* Example:
* 
* UriTemplate template = new UriTemplate("http://example.com/hotels/{hotel}/bookings/{booking}");
* System.out.println(template.match("http://example.com/hotels/1/bookings/42"));
* 
* will print: <blockquote>{ @code {hotel=1, booking=42}}</blockquote>
* @param uri the URI to match to
* @return a map of variable values
public Map<String, String> match(String uri) {
Assert.notNull(uri, "'uri' must not be null");
Map<String, String> result = new LinkedHashMap<String, String>(this.variableNames.size());
Matcher matcher = this.matchPattern.matcher(uri);
if (matcher.find()) {
 for (int i = 1; i <= matcher.groupCount(); i++) {
 String name = this.variableNames.get(i - 1);
 String value = matcher.group(i);
 result.put(name, value);
 }
return result:
@Override
public String toString() {
return this.uriTemplate;
}
/**
* Static inner class to parse URI template strings into a matching regular expression.
private static class Parser {
private final List<String> variableNames = new LinkedList<String>();
private final StringBuilder patternBuilder = new StringBuilder();
private Parser(String uriTemplate) {
 Assert.hasText(uriTemplate, "'uriTemplate' must not be null");
 Matcher m = NAMES_PATTERN.matcher(uriTemplate);
 int end = 0;
 while (m.find()) {
 this.patternBuilder.append(quote(uriTemplate, end, m.start()));
```

```
String match = m.group(1);
  int colonIdx = match.indexOf(':');
  if (colonIdx == -1) {
  this.patternBuilder.append(DEFAULT_VARIABLE_PATTERN);
  this.variableNames.add(match);
  else {
  if (colonIdx + 1 == match.length()) {
   throw new IllegalArgumentException(
    "No custom regular expression specified after ':' in \"" + match + "\"");
  String variablePattern = match.substring(colonIdx + 1, match.length());
  this.patternBuilder.append('(');
  this.patternBuilder.append(variablePattern);
  this.patternBuilder.append(')');
  String variableName = match.substring(0, colonIdx);
  this.variableNames.add(variableName);
  end = m.end();
 this.pattern Builder.append (quote (uriTemplate, end, uriTemplate.length ()));\\
 int lastIdx = this.patternBuilder.length() - 1;
 if (lastIdx >= 0 && this.patternBuilder.charAt(lastIdx) == '/') {
  this.patternBuilder.deleteCharAt(lastIdx);
 }
 }
private String quote(String fullPath, int start, int end) {
 if (start == end) {
  return "";
 }
 return Pattern.quote(fullPath.substring(start, end));
private List<String> getVariableNames() {
 return Collections.unmodifiableList(this.variableNames);
 }
private Pattern getMatchPattern() {
 return Pattern.compile(this.patternBuilder.toString());
}
}
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```

}

```
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* limitations under the License.
package org.springframework.web.jsf.el;
import java.beans.FeatureDescriptor;
import java.util.Iterator;
import javax.el.ELContext;
import javax.el.ELException;
import javax.el.ELResolver;
import javax.faces.context.FacesContext;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.beans.BeansException;
import org.springframework.web.context.WebApplicationContext;
import org.springframework.web.jsf.FacesContextUtils;
* Special JSF { @code ELResolver} that exposes the Spring { @code WebApplicationContext}
* instance under a variable named "webApplicationContext".
* In contrast to {@link SpringBeanFacesELResolver}, this ELResolver variant
* does <i>not</i> resolve JSF variable names as Spring bean names. It rather
* exposes Spring's root WebApplicationContext <i>itself</i> under a special name,
* and is able to resolve "webApplicationContext.mySpringManagedBusinessObject"
* dereferences to Spring-defined beans in that application context.
* Configure this resolver in your {@code faces-config.xml} file as follows:
* class="code">
* <application>
* ...
* <el-resolver>org.springframework.web.jsf.el.WebApplicationContextFacesELResolver&lt;/el-resolver>
* </application>
* @author Juergen Hoeller
* @since 2.5
```

```
* @see SpringBeanFacesELResolver
* @see org.springframework.web.jsf.FacesContextUtils#getWebApplicationContext
public class WebApplicationContextFacesELResolver extends ELResolver {
/**
 * Name of the exposed WebApplicationContext variable: "webApplicationContext".
public static final String WEB_APPLICATION_CONTEXT_VARIABLE_NAME = "webApplicationContext";
/** Logger available to subclasses */
protected final Log logger = LogFactory.getLog(getClass());
@Override
public Object getValue(ELContext elContext, Object base, Object property) throws ELException {
 if (base != null) {
 if (base instanceof WebApplicationContext) {
  WebApplicationContext wac = (WebApplicationContext) base;
  String beanName = property.toString();
  if (logger.isTraceEnabled()) {
  logger.trace("Attempting to resolve property "" + beanName + "" in root WebApplicationContext");
  if (wac.containsBean(beanName)) {
  if (logger.isDebugEnabled()) {
   logger.debug("Successfully resolved property "" + beanName + "" in root WebApplicationContext");
  }
  elContext.setPropertyResolved(true);
  try {
   return wac.getBean(beanName);
  catch (BeansException ex) {
   throw new ELException(ex);
  }
  }
  else {
  // Mimic standard JSF/JSP behavior when base is a Map by returning null.
  return null;
 }
 }
 else {
 if (WEB_APPLICATION_CONTEXT_VARIABLE_NAME.equals(property)) {
  elContext.setPropertyResolved(true);
 return getWebApplicationContext(elContext);
 }
```

}

```
return null:
@Override
public Class<?> getType(ELContext elContext, Object base, Object property) throws ELException {
if (base != null) {
 if (base instanceof WebApplicationContext) {
 WebApplicationContext wac = (WebApplicationContext) base;
 String beanName = property.toString();
 if (logger.isDebugEnabled()) {
  logger.debug("Attempting to resolve property "" + beanName + "' in root WebApplicationContext");
 }
 if (wac.containsBean(beanName)) {
  if (logger.isDebugEnabled()) {
  logger.debug("Successfully resolved property "' + beanName + "' in root WebApplicationContext");
  elContext.setPropertyResolved(true);
  try {
  return wac.getType(beanName);
  catch (BeansException ex) {
  throw new ELException(ex);
  }
 }
  // Mimic standard JSF/JSP behavior when base is a Map by returning null.
 return null;
 }
 }
}
else {
 if (WEB_APPLICATION_CONTEXT_VARIABLE_NAME.equals(property)) {
 elContext.setPropertyResolved(true);
 return WebApplicationContext.class;
 }
}
return null;
}
@Override
public void setValue(ELContext elContext, Object base, Object property, Object value) throws ELException {
}
@Override
public boolean isReadOnly(ELContext elContext, Object base, Object property) throws ELException {
if (base instanceof WebApplicationContext) {
```

```
elContext.setPropertyResolved(true);
 return false:
 return false;
@Override
public Iterator<FeatureDescriptor> getFeatureDescriptors(ELContext elContext, Object base) {
 return null;
}
@Override
public Class<?> getCommonPropertyType(ELContext elContext, Object base) {
 return Object.class;
/**
 * Retrieve the WebApplicationContext reference to expose.
 * The default implementation delegates to FacesContextUtils,
 * returning {@code null} if no WebApplicationContext found.
 * @param elContext the current JSF ELContext
 * @return the Spring web application context
 * @see org.springframework.web.jsf.FacesContextUtils#getWebApplicationContext
protected WebApplicationContext getWebApplicationContext(ELContext elContext) {
 FacesContext facesContext = FacesContext.getCurrentInstance();
 return\ Faces Context Utils.get Required Web Application Context (faces Context);
}
}
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* limitations under the License.
*/
package org.springframework.web;
```

```
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
/**
* Interface to be implemented in Servlet 3.0+ environments in order to configure the
* {@link ServletContext} programmatically -- as opposed to (or possibly in conjunction
* with) the traditional {@code web.xml}-based approach.
* Implementations of this SPI will be detected automatically by {@link
* SpringServletContainerInitializer}, which itself is bootstrapped automatically
* by any Servlet 3.0 container. See {@linkplain SpringServletContainerInitializer its
* Javadoc} for details on this bootstrapping mechanism.
* <h2>Example</h2>
* <h3>The traditional, XML-based approach</h3>
* Most Spring users building a web application will need to register Spring's {@code
* DispatcherServlet}. For reference, in WEB-INF/web.xml, this would typically be done as
* follows:
* 
* { @ code
* <servlet>
* <servlet-name>dispatcher</servlet-name>
* <servlet-class>
   org.springframework.web.servlet.DispatcherServlet
* </servlet-class>
* <init-param>
   <param-name>contextConfigLocation</param-name>
    <param-value>/WEB-INF/spring/dispatcher-config.xml</param-value>
* </init-param>
* <load-on-startup>1</load-on-startup>
* </servlet>
* <servlet-mapping>
* <servlet-name>dispatcher</servlet-name>
* <url-pattern>/</url-pattern>
* </servlet-mapping>}
* <h3>The code-based approach with {@code WebApplicationInitializer}</h3>
* Here is the equivalent {@code DispatcherServlet} registration logic,
* { @code WebApplicationInitializer }-style:
* class="code">
* public class MyWebAppInitializer implements WebApplicationInitializer {
   @Override
   public void onStartup(ServletContext container) {
```

XmlWebApplicationContext appContext = new XmlWebApplicationContext(); appContext.setConfigLocation("/WEB-INF/spring/dispatcher-config.xml");

```
ServletRegistration.Dynamic dispatcher =
     container.addServlet("dispatcher", new DispatcherServlet(appContext));
    dispatcher.setLoadOnStartup(1);
    dispatcher.addMapping("/");
* }
* As an alternative to the above, you can also extend from {@link
* org.springframework.web.servlet.support.AbstractDispatcherServletInitializer}.
* As you can see, thanks to Servlet 3.0's new {@link ServletContext#addServlet} method
* we're actually registering an <em>instance</em> of the {@code DispatcherServlet}, and
* this means that the {@code DispatcherServlet} can now be treated like any other object
* -- receiving constructor injection of its application context in this case.
* This style is both simpler and more concise. There is no concern for dealing with
* init-params, etc, just normal JavaBean-style properties and constructor arguments. You
* are free to create and work with your Spring application contexts as necessary before
* injecting them into the {@code DispatcherServlet}.
* Most major Spring Web components have been updated to support this style of
* registration. You'll find that {@code DispatcherServlet}, {@code FrameworkServlet},
* { @code ContextLoaderListener} and { @code DelegatingFilterProxy} all now support
* constructor arguments. Even if a component (e.g. non-Spring, other third party) has not
* been specifically updated for use within {@code WebApplicationInitializers}, they still
* may be used in any case. The Servlet 3.0 {@code ServletContext} API allows for setting
* init-params, context-params, etc programmatically.
* <h2>A 100% code-based approach to configuration</h2>
* In the example above, {@code WEB-INF/web.xml} was successfully replaced with code in
* the form of a {@code WebApplicationInitializer}, but the actual
* {@code dispatcher-config.xml} Spring configuration remained XML-based.
* {@code WebApplicationInitializer} is a perfect fit for use with Spring's code-based
* {@code @Configuration} classes. See @{@link
* org.springframework.context.annotation.Configuration Configuration } Javadoc for
* complete details, but the following example demonstrates refactoring to use Spring's
* {@link org.springframework.web.context.support.AnnotationConfigWebApplicationContext
* AnnotationConfigWebApplicationContext} in lieu of {@code XmlWebApplicationContext}, and
* user-defined {@code @Configuration} classes {@code AppConfig} and
* {@code DispatcherConfig} instead of Spring XML files. This example also goes a bit
* beyond those above to demonstrate typical configuration of the 'root' application
* context and registration of the {@code ContextLoaderListener}:
* class="code">
* public class MyWebAppInitializer implements WebApplicationInitializer {
   @Override
```

```
public void onStartup(ServletContext container) {
    // Create the 'root' Spring application context
    AnnotationConfigWebApplicationContext rootContext =
     new AnnotationConfigWebApplicationContext();
    rootContext.register(AppConfig.class);
    // Manage the lifecycle of the root application context
    container.addListener(new ContextLoaderListener(rootContext));
    // Create the dispatcher servlet's Spring application context
    AnnotationConfigWebApplicationContext dispatcherContext =
     new AnnotationConfigWebApplicationContext();
    dispatcherContext.register(DispatcherConfig.class);
    // Register and map the dispatcher servlet
    ServletRegistration.Dynamic dispatcher =
     container.addServlet("dispatcher", new DispatcherServlet(dispatcherContext));
    dispatcher.setLoadOnStartup(1);
    dispatcher.addMapping("/");
   }
* }
* As an alternative to the above, you can also extend from {@link
* org.springframework.web.servlet.support.AbstractAnnotationConfigDispatcherServletInitializer}.
* Remember that {@code WebApplicationInitializer} implementations are <em>detected
* automatically</em> -- so you are free to package them within your application as you
* see fit.
* <h2>Ordering {@code WebApplicationInitializer} execution</h2>
* {@code WebApplicationInitializer} implementations may optionally be annotated at the
* class level with Spring's @{@link org.springframework.core.annotation.Order Order}
* annotation or may implement Spring's {@link org.springframework.core.Ordered Ordered}
* interface. If so, the initializers will be ordered prior to invocation. This provides
* a mechanism for users to ensure the order in which servlet container initialization
* occurs. Use of this feature is expected to be rare, as typical applications will likely
* centralize all container initialization within a single { @code WebApplicationInitializer}.
* <h2>Caveats</h2>
* <h3>web.xml versioning</h3>
* {@code WEB-INF/web.xml} and {@code WebApplicationInitializer} use are not mutually
* exclusive; for example, web.xml can register one servlet, and a {@code
* WebApplicationInitializer} can register another. An initializer can even
* <em>modify</em> registrations performed in {@code web.xml} through methods such as
* {@link ServletContext#getServletRegistration(String)}. <strong>However, if
* {@code WEB-INF/web.xml} is present in the application, its {@code version} attribute
```

```
* must be set to "3.0" or greater, otherwise { @code ServletContainerInitializer}
* bootstrapping will be ignored by the servlet container.</strong>
* <h3>Mapping to '/' under Tomcat</h3>
* Apache Tomcat maps its internal {@code DefaultServlet} to "/", and on Tomcat versions
* <= 7.0.14, this servlet mapping <em>cannot be overridden programmatically</em>.
* 7.0.15 fixes this issue. Overriding the "/" servlet mapping has also been tested
* successfully under GlassFish 3.1.
* @author Chris Beams
* @since 3.1
* @see SpringServletContainerInitializer
* @see org.springframework.web.context.AbstractContextLoaderInitializer
* @see org.springframework.web.servlet.support.AbstractDispatcherServletInitializer
* @see org.springframework.web.servlet.support.AbstractAnnotationConfigDispatcherServletInitializer
public interface WebApplicationInitializer {
/**
 * Configure the given {@link ServletContext} with any servlets, filters, listeners
 * context-params and attributes necessary for initializing this web application. See
 * examples {@linkplain WebApplicationInitializer above}.
 * @param servletContext the { @code ServletContext} to initialize
 * @throws ServletException if any call against the given {@code ServletContext}
 * throws a {@code ServletException}
void onStartup(ServletContext servletContext) throws ServletException;
}
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*/
package org.springframework.web.client;
import java.io.IOException;
```

```
import java.lang.reflect.Type;
import java.net.URI;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.Set;
import javax.xml.transform.Source;
import org.springframework.core.ParameterizedTypeReference;
import org.springframework.http.HttpEntity;
import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import org.springframework.http.MediaType;
import org.springframework.http.ResponseEntity;
import org.springframework.http.client.ClientHttpRequest;
import org.springframework.http.client.ClientHttpRequestFactory;
import org.springframework.http.client.ClientHttpResponse;
import org.springframework.http.client.support.InterceptingHttpAccessor;
import org.springframework.http.converter.ByteArrayHttpMessageConverter;
import org.springframework.http.converter.GenericHttpMessageConverter;
import org.springframework.http.converter.HttpMessageConverter;
import org.springframework.http.converter.ResourceHttpMessageConverter;
import org.springframework.http.converter.StringHttpMessageConverter;
import org.springframework.http.converter.feed.AtomFeedHttpMessageConverter;
import org.springframework.http.converter.feed.RssChannelHttpMessageConverter;
import org.springframework.http.converter.json.MappingJackson2HttpMessageConverter;
import org.springframework.http.converter.support.AllEncompassingFormHttpMessageConverter;
import org.springframework.http.converter.xml.Jaxb2RootElementHttpMessageConverter;
import org.springframework.http.converter.xml.SourceHttpMessageConverter;
import org.springframework.util.Assert;
import org.springframework.util.ClassUtils;
import org.springframework.web.util.UriTemplate;
* <strong>Spring's central class for synchronous client-side HTTP access.</strong>
* It simplifies communication with HTTP servers, and enforces RESTful principles.
* It handles HTTP connections, leaving application code to provide URLs
* (with possible template variables) and extract results.
* The main entry points of this template are the methods named after the six main HTTP methods:
* HTTP methodRestTemplate methods
* DELETE{ @ link #delete } 
* GET{@link #getForObject}
* <(td>
* HEAD{@link #headForHeaders}
* OPTIONS{ @ link #optionsForAllow}
```

- \* POST{@link #postForLocation}
- \*
- \* PUT{@link #put}
- \* any{@link #exchange}
- \* {@link #execute}

\*

- \* The {@code exchange} and {@code execute} methods are generalized versions of the more specific methods listed
- \* above them. They support additional, less frequently used combinations including support for requests using the
- \* HTTP PATCH method. However, note that the underlying HTTP library must also support the desired combination.

\*

- \* For each of these HTTP methods, there are three corresponding Java methods in the {@code RestTemplate}.
- \* Two variants take a {@code String} URI as first argument (eg. {@link #getForObject(String, Class, Object[])},
- \* {@link #getForObject(String, Class, Map)}), and are capable of substituting any {@linkplain UriTemplate URI templates}
- \* in that URL using either a {@code String} variable arguments array, or a {@code Map<String, String>}.
- \* The string varargs variant expands the given template variables in order, so that
- \*
- \* String result = restTemplate.getForObject("http://example.com/hotels/{hotel}/bookings/{booking}}", String.class, "42".
- \* "21"):
- \*
- \* will perform a GET on {@code http://example.com/hotels/42/bookings/21}. The map variant expands the template based
- \* on variable name, and is therefore more useful when using many variables, or when a single variable is used multiple
- \* times. For example:
- \* class="code">
- \* Map<String, String&gt; vars = Collections.singletonMap("hotel", "42");
- \* String result = restTemplate.getForObject("http://example.com/hotels/{hotel}/rooms/{hotel}", String.class, vars);
- \*
- \* will perform a GET on {@code http://example.com/hotels/42/rooms/42}. Alternatively, there are {@link URI} variant
- \* methods ({@link #getForObject(URI, Class)}), which do not allow for URI templates, but allow you to reuse a single,
- \* expanded URI multiple times.

\*

- \* Furthermore, the {@code String}-argument methods assume that the URL String is unencoded. This means that
- \*
- \* restTemplate.getForObject("http://example.com/hotel list");
- \*
- \* will perform a GET on {@code http://example.com/hotel%20list}. As a result, any URL passed that is already encoded
- \* will be encoded twice (i.e. {@code http://example.com/hotel%20list} will become {@code
- \* http://example.com/hotel%2520list}). If this behavior is undesirable, use the {@code URI}-argument methods, which

```
* will not perform any URL encoding.
* Objects passed to and returned from these methods are converted to and from HTTP messages by
* {@link HttpMessageConverter} instances. Converters for the main mime types are registered by default,
* but you can also write your own converter and register it via the {@link #setMessageConverters
messageConverters}
* bean property.
* This template uses a {@link org.springframework.http.client.SimpleClientHttpRequestFactory} and a
* { @link DefaultResponseErrorHandler} as default strategies for creating HTTP connections or handling HTTP
* respectively. These defaults can be overridden through the {@link #setRequestFactory(ClientHttpRequestFactory)
* requestFactory} and {@link #setErrorHandler(ResponseErrorHandler) errorHandler} bean properties.
* @author Arjen Poutsma
* @since 3.0
* @see HttpMessageConverter
* @see RequestCallback
* @see ResponseExtractor
* @see ResponseErrorHandler
* @see AsyncRestTemplate
public class RestTemplate extends InterceptingHttpAccessor implements RestOperations {
private static boolean romePresent =
 ClassUtils.isPresent("com.sun.syndication.feed.WireFeed", RestTemplate.class.getClassLoader());
private static final boolean jaxb2Present =
 ClassUtils.isPresent("javax.xml.bind.Binder", RestTemplate.class.getClassLoader());
private static final boolean jackson2Present =
 ClassUtils.isPresent("com.fasterxml.jackson.databind.ObjectMapper", RestTemplate.class.getClassLoader()) &&
  ClassUtils.isPresent("com.fasterxml.jackson.core.JsonGenerator", RestTemplate.class.getClassLoader());
private static final boolean jacksonPresent =
 ClassUtils.isPresent("org.codehaus.jackson.map.ObjectMapper", RestTemplate.class.getClassLoader()) &&
  ClassUtils.isPresent("org.codehaus.jackson.JsonGenerator", RestTemplate.class.getClassLoader());
private final ResponseExtractor<HttpHeaders> headersExtractor = new HeadersExtractor();
private List<HttpMessageConverter<?>> messageConverters = new ArrayList<HttpMessageConverter<?>>();
private ResponseErrorHandler errorHandler = new DefaultResponseErrorHandler();
/**
 * Create a new instance of the {@link RestTemplate} using default settings.
```

```
*/
@SuppressWarnings("deprecation")
public RestTemplate() {
this.messageConverters.add(new ByteArrayHttpMessageConverter());
this.messageConverters.add(new StringHttpMessageConverter());
this.messageConverters.add(new ResourceHttpMessageConverter());
this.messageConverters.add(new SourceHttpMessageConverter<Source>());
this.messageConverters.add(new AllEncompassingFormHttpMessageConverter());
if (romePresent) {
 this.messageConverters.add(new AtomFeedHttpMessageConverter());
 this.messageConverters.add(new RssChannelHttpMessageConverter());
if (jaxb2Present) {
 this.messageConverters.add(new Jaxb2RootElementHttpMessageConverter());
if (jackson2Present) {
 this.messageConverters.add(new MappingJackson2HttpMessageConverter());
else if (jacksonPresent) {
 this.messageConverters.add(new
org.spring framework.http.converter.json. Mapping Jackson Http Message Converter());\\
}
}
/**
* Create a new instance of the {@link RestTemplate} based on the given {@link ClientHttpRequestFactory}.
* @param requestFactory HTTP request factory to use
* @see org.springframework.http.client.SimpleClientHttpRequestFactory
* @see org.springframework.http.client.HttpComponentsClientHttpRequestFactory
public RestTemplate(ClientHttpRequestFactory requestFactory) {
setRequestFactory(requestFactory);
/**
* Set the message body converters to use.
 * These converters are used to convert from and to HTTP requests and responses.
*/
public void setMessageConverters(List<HttpMessageConverter<?>> messageConverters) {
Assert.notEmpty(messageConverters, "'messageConverters' must not be empty");
this.messageConverters = messageConverters;
}
* Return the message body converters.
```

```
public List<HttpMessageConverter<?>>> getMessageConverters() {
return this.messageConverters;
/**
* Set the error handler.
* By default, RestTemplate uses a {@link DefaultResponseErrorHandler}.
public void setErrorHandler(ResponseErrorHandler errorHandler) {
Assert.notNull(errorHandler, "'errorHandler' must not be null");
this.errorHandler = errorHandler;
/**
* Return the error handler.
public ResponseErrorHandler getErrorHandler() {
return this.errorHandler;
}
// GET
@Override
public <T> T getForObject(String url, Class<T> responseType, Object... urlVariables) throws RestClientException
RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
HttpMessageConverterExtractor<T> responseExtractor =
 new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
}
@Override
public <T> T getForObject(String url, Class<T> responseType, Map<String, ?> urlVariables) throws
RestClientException {
RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
HttpMessageConverterExtractor<T> responseExtractor =
 new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
}
@Override
public <T> T getForObject(URI url, Class<T> responseType) throws RestClientException {
RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
HttpMessageConverterExtractor<T> responseExtractor =
 new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
return execute(url, HttpMethod.GET, requestCallback, responseExtractor);
}
```

```
@Override
public <T> ResponseEntity<T> getForEntity(String url, Class<T> responseType, Object... urlVariables)
 throws RestClientException {
RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
@Override
public <T> ResponseEntity<T> getForEntity(String url, Class<T> responseType, Map<String, ?> urlVariables)
 throws RestClientException {
RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
}
@Override
public <T> ResponseEntity<T> getForEntity(URI url, Class<T> responseType) throws RestClientException {
RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, HttpMethod.GET, requestCallback, responseExtractor);
// HEAD
@Override
public HttpHeaders headForHeaders(String url, Object... urlVariables) throws RestClientException {
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
return execute(url, HttpMethod.HEAD, null, headersExtractor, urlVariables);
}
@Override
public HttpHeaders headForHeaders(String url, Map<String, ?> urlVariables) throws RestClientException {
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
return execute(url, HttpMethod.HEAD, null, headersExtractor, urlVariables);
}
@Override
public HttpHeaders headForHeaders(URI url) throws RestClientException {
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
return execute(url, HttpMethod.HEAD, null, headersExtractor);
// POST
@Override
public URI postForLocation(String url, Object request, Object... urlVariables) throws RestClientException {
```

```
RequestCallback requestCallback = httpEntityCallback(request);
HttpHeaders headers = execute(url, HttpMethod.POST, requestCallback, this.headersExtractor, urlVariables);
return headers.getLocation();
}
@Override
public URI postForLocation(String url, Object request, Map<String, ?> urlVariables)
 throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(request);
HttpHeaders headers = execute(url, HttpMethod.POST, requestCallback, this.headersExtractor, urlVariables);
return headers.getLocation();
@Override
public URI postForLocation(URI url, Object request) throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(request);
HttpHeaders headers = execute(url, HttpMethod.POST, requestCallback, this.headersExtractor);
return headers.getLocation();
}
@Override
public <T> T postForObject(String url, Object request, Class<T> responseType, Object... uriVariables)
 throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(request, responseType);
HttpMessageConverterExtractor<T> responseExtractor =
 new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}
@Override
public <T> T postForObject(String url, Object request, Class<T> responseType, Map<String, ?> uriVariables)
 throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(request, responseType);
HttpMessageConverterExtractor<T> responseExtractor =
 new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}
@Override
public <T> T postForObject(URI url, Object request, Class<T> responseType) throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(request, responseType);
HttpMessageConverterExtractor<T> responseExtractor =
 new HttpMessageConverterExtractor<T>(responseType, getMessageConverters());
return execute(url, HttpMethod.POST, requestCallback, responseExtractor);
}
@Override
public <T> ResponseEntity<T> postForEntity(String url, Object request, Class<T> responseType, Object...
```

```
uriVariables)
 throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(request, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}
@Override
public <T> ResponseEntity<T> postForEntity(String url, Object request, Class<T> responseType, Map<String, ?>
uriVariables)
 throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(request, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}
@Override
public <T> ResponseEntity<T> postForEntity(URI url, Object request, Class<T> responseType) throws
RestClientException {
RequestCallback requestCallback = httpEntityCallback(request, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, HttpMethod.POST, requestCallback, responseExtractor);
}
// PUT
@Override
public void put(String url, Object request, Object... urlVariables) throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(request);
execute(url, HttpMethod.PUT, requestCallback, null, urlVariables);
@Override
public void put(String url, Object request, Map<String, ?> urlVariables) throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(request);
execute(url, HttpMethod.PUT, requestCallback, null, urlVariables);
@Override
public void put(URI url, Object request) throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(request);
execute(url,\,HttpMethod.PUT,\,requestCallback,\,null);\\
}
// DELETE
```

```
@Override
public void delete(String url, Object... urlVariables) throws RestClientException {
execute(url, HttpMethod.DELETE, null, null, urlVariables);
}
@Override
public void delete(String url, Map<String, ?> urlVariables) throws RestClientException {
execute(url, HttpMethod.DELETE, null, null, urlVariables);
@Override
public void delete(URI url) throws RestClientException {
execute(url, HttpMethod.DELETE, null, null);
// OPTIONS
@Override
public Set<HttpMethod> optionsForAllow(String url, Object... urlVariables) throws RestClientException {
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
HttpHeaders headers = execute(url, HttpMethod.OPTIONS, null, headersExtractor, urlVariables);
return headers.getAllow();
}
@Override
public Set<HttpMethod> optionsForAllow(String url, Map<String, ?> urlVariables) throws RestClientException {
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
HttpHeaders headers = execute(url, HttpMethod.OPTIONS, null, headersExtractor, urlVariables);
return headers.getAllow();
@Override
public Set<HttpMethod> optionsForAllow(URI url) throws RestClientException {
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
HttpHeaders headers = execute(url, HttpMethod.OPTIONS, null, headersExtractor);
return headers.getAllow();
}
// exchange
@Override
public <T> ResponseEntity<T> exchange(String url, HttpMethod method,
 HttpEntity<?> requestEntity, Class<T> responseType, Object... uriVariables) throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, method, requestCallback, responseExtractor, uriVariables);
}
```

```
@Override
public <T> ResponseEntity<T> exchange(String url, HttpMethod method,
 HttpEntity<?> requestEntity, Class<T> responseType, Map<String, ?> uriVariables) throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, method, requestCallback, responseExtractor, uriVariables);
@Override
public <T> ResponseEntity<T> exchange(URI url, HttpMethod method, HttpEntity<?> requestEntity,
 Class<T> responseType) throws RestClientException {
RequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, method, requestCallback, responseExtractor);
@Override
public <T> ResponseEntity<T> exchange(String url, HttpMethod method, HttpEntity<?> requestEntity,
 ParameterizedTypeReference<T> responseType, Object... uriVariables) throws RestClientException {
Type type = responseType.getType();
RequestCallback requestCallback = httpEntityCallback(requestEntity, type);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
return execute(url, method, requestCallback, responseExtractor, uriVariables);
}
@Override
public <T> ResponseEntity<T> exchange(String url, HttpMethod method, HttpEntity<?> requestEntity,
 ParameterizedTypeReference<T> responseType, Map<String, ?> uriVariables) throws RestClientException {
Type type = responseType.getType();
RequestCallback requestCallback = httpEntityCallback(requestEntity, type);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
return execute(url, method, requestCallback, responseExtractor, uriVariables);
}
@Override
public <T> ResponseEntity<T> exchange(URI url, HttpMethod method, HttpEntity<?> requestEntity,
 ParameterizedTypeReference<T> responseType) throws RestClientException {
Type type = responseType.getType();
RequestCallback requestCallback = httpEntityCallback(requestEntity, type);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
return execute(url, method, requestCallback, responseExtractor);
}
```

```
// general execution
@Override
public <T> T execute(String url, HttpMethod method, RequestCallback requestCallback,
 ResponseExtractor<T> responseExtractor, Object... urlVariables) throws RestClientException {
URI expanded = new UriTemplate(url).expand(urlVariables);
return doExecute(expanded, method, requestCallback, responseExtractor);
}
@Override
public <T> T execute(String url, HttpMethod method, RequestCallback requestCallback,
 ResponseExtractor<T> responseExtractor, Map<String, ?> urlVariables) throws RestClientException {
URI expanded = new UriTemplate(url).expand(urlVariables);
return doExecute(expanded, method, requestCallback, responseExtractor);
@Override
public <T> T execute(URI url, HttpMethod method, RequestCallback requestCallback,
 ResponseExtractor<T> responseExtractor) throws RestClientException {
return doExecute(url, method, requestCallback, responseExtractor);
}
/**
* Execute the given method on the provided URI. The {@link ClientHttpRequest} is processed using the {@link
* RequestCallback}; the response with the {@link ResponseExtractor}.
* @param url the fully-expanded URL to connect to
* @param method the HTTP method to execute (GET, POST, etc.)
* @param requestCallback object that prepares the request (can be {@code null})
* @param responseExtractor object that extracts the return value from the response (can be {@code null})
* @return an arbitrary object, as returned by the {@link ResponseExtractor}
protected <T> T doExecute(URI url, HttpMethod method, RequestCallback requestCallback,
 ResponseExtractor<T> responseExtractor) throws RestClientException {
Assert.notNull(url, "'url' must not be null");
Assert.notNull(method, "'method' must not be null");
ClientHttpResponse response = null;
try {
 ClientHttpRequest request = createRequest(url, method);
 if (requestCallback != null) {
 requestCallback.doWithRequest(request);
 }
 response = request.execute();
 if (!getErrorHandler().hasError(response)) {
```

```
logResponseStatus(method, url, response);
 }
 else {
 handleResponseError(method, url, response);
 if (responseExtractor != null) {
 return responseExtractor.extractData(response);
 }
 else {
 return null;
 }
catch (IOException ex) {
 throw new ResourceAccessException("I/O error on " + method.name() +
  " request for \"" + url + "\":" + ex.getMessage(), ex);
}
finally {
 if (response != null) {
 response.close();
 }
}
}
private void logResponseStatus(HttpMethod method, URI url, ClientHttpResponse response) {
if (logger.isDebugEnabled()) {
 logger.debug(method.name() + " request for \"" + url + "\" resulted in " +
  response.getStatusCode() + " (" +
  response.getStatusText() + ")");
 catch (IOException e) {
 // ignore
 }
}
private void handleResponseError(HttpMethod method, URI url, ClientHttpResponse response) throws IOException
if (logger.isWarnEnabled()) {
 try {
 logger.warn(
  method.name() + " request for \"" + url + "\" resulted in " + response.getStatusCode() + " (" +
    response.getStatusText() + "); invoking error handler");
 }
 catch (IOException e) {
 // ignore
 }
}
```

```
getErrorHandler().handleError(response);
}
/**
* Returns a request callback implementation that prepares the request {@code Accept}
* headers based on the given response type and configured
* {@linkplain #getMessageConverters() message converters}.
protected <T> RequestCallback acceptHeaderRequestCallback(Class<T> responseType) {
return new AcceptHeaderRequestCallback(responseType);
/**
* Returns a request callback implementation that writes the given object to the
* request stream.
protected <T> RequestCallback httpEntityCallback(Object requestBody) {
return new HttpEntityRequestCallback(requestBody);
}
/**
* Returns a request callback implementation that writes the given object to the
* request stream.
protected <T> RequestCallback httpEntityCallback(Object requestBody,
 Type responseType) {
return new HttpEntityRequestCallback(requestBody, responseType);
}
/**
* Returns a response extractor for {@link ResponseEntity}.
protected <T> ResponseExtractor<ResponseEntity<T>> responseEntityExtractor(Type responseType) {
return new ResponseEntityResponseExtractor<T>(responseType);
}
/**
* Returns a response extractor for {@link HttpHeaders}.
protected ResponseExtractor<HttpHeaders> headersExtractor() {
return this.headersExtractor;
}
/**
* Request callback implementation that prepares the request's accept headers.
private class AcceptHeaderRequestCallback implements RequestCallback {
```

```
private final Type responseType;
private AcceptHeaderRequestCallback(Type responseType) {
this.responseType = responseType;
@Override
public void doWithRequest(ClientHttpRequest request) throws IOException {
if (responseType != null) {
 Class<?> responseClass = null;
 if (responseType instanceof Class) {
 responseClass = (Class<?>) responseType;
 }
 List<MediaType> allSupportedMediaTypes = new ArrayList<MediaType>();
 for (HttpMessageConverter<?> converter : getMessageConverters()) {
 if (responseClass != null) {
  if (converter.canRead(responseClass, null)) {
  all Supported Media Types. add All (get Supported Media Types (converter));\\
 else if (converter instanceof GenericHttpMessageConverter) {
  GenericHttpMessageConverter<?> genericConverter = (GenericHttpMessageConverter<?>) converter;
  if (genericConverter.canRead(responseType, null, null)) {
  all Supported Media Types. add All (get Supported Media Types (converter));\\
 }
 if (!allSupportedMediaTypes.isEmpty()) {
 MediaType.sortBySpecificity(allSupportedMediaTypes);
 if (logger.isDebugEnabled()) {
  logger.debug("Setting request Accept header to " +
   allSupportedMediaTypes);
 }
 request.getHeaders().setAccept(allSupportedMediaTypes);
 }
}
}
private List<MediaType> getSupportedMediaTypes(HttpMessageConverter<?> messageConverter) {
List<MediaType> supportedMediaTypes = messageConverter.getSupportedMediaTypes();
List<MediaType> result = new ArrayList<MediaType>(supportedMediaTypes.size());
for (MediaType supportedMediaType : supportedMediaTypes) {
 if (supportedMediaType.getCharSet() != null) {
 supportedMediaType =
```

```
new MediaType(supportedMediaType.getType(), supportedMediaType.getSubtype());
 }
 result.add(supportedMediaType);
 }
 return result;
}
/**
* Request callback implementation that writes the given object to the request stream.
private class HttpEntityRequestCallback extends AcceptHeaderRequestCallback {
private final HttpEntity<?> requestEntity;
private HttpEntityRequestCallback(Object requestBody) {
 this(requestBody, null);
}
private HttpEntityRequestCallback(Object requestBody, Type responseType) {
 super(responseType);
 if (requestBody instanceof HttpEntity) {
 this.requestEntity = (HttpEntity<?>) requestBody;
 }
 else if (requestBody != null) {
 this.requestEntity = new HttpEntity<Object>(requestBody);
 }
 else {
 this.requestEntity = HttpEntity.EMPTY;
 }
}
@Override
@SuppressWarnings("unchecked")
public void doWithRequest(ClientHttpRequest httpRequest) throws IOException {
 super.doWithRequest(httpRequest);
 if (!requestEntity.hasBody()) {
 HttpHeaders httpHeaders = httpRequest.getHeaders();
 HttpHeaders requestHeaders = requestEntity.getHeaders();
 if (!requestHeaders.isEmpty()) {
 httpHeaders.putAll(requestHeaders);
 if (httpHeaders.getContentLength() == -1) {
 httpHeaders.setContentLength(0L);
 }
 }
 else {
```

```
Object requestBody = requestEntity.getBody();
 Class<?> requestType = requestBody.getClass();
 HttpHeaders requestHeaders = requestEntity.getHeaders();
 MediaType requestContentType = requestHeaders.getContentType();
 for (HttpMessageConverter<?> messageConverter : getMessageConverters()) {
  if (messageConverter.canWrite(requestType, requestContentType)) {
  if (!requestHeaders.isEmpty()) {
   httpRequest.getHeaders().putAll(requestHeaders);
  if (logger.isDebugEnabled()) {
   if (requestContentType != null) {
    logger.debug("Writing [" + requestBody + "] as \"" + requestContentType + "]
     "\" using [" + messageConverter + "]");
   }
   else {
   logger.debug("Writing [" + requestBody + "] using [" + messageConverter + "]");
   }
   }
  ((HttpMessageConverter<Object>) messageConverter).write(
    requestBody, requestContentType, httpRequest);
  return;
  }
 String message = "Could not write request: no suitable HttpMessageConverter found for request type [" +
  requestType.getName() + "]";
 if (requestContentType != null) {
  message += " and content type [" + requestContentType + "]";
 throw new RestClientException(message);
 }
* Response extractor for {@link HttpEntity}.
private class ResponseEntityResponseExtractor<T> implements ResponseExtractor<ResponseEntity<T>> {
private final HttpMessageConverterExtractor<T> delegate;
public ResponseEntityResponseExtractor(Type responseType) {
 if (responseType != null && !Void.class.equals(responseType)) {
 this.delegate = new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
 } else {
 this.delegate = null;
 }
```

```
}
 @Override
 public ResponseEntity<T> extractData(ClientHttpResponse response) throws IOException {
 if (this.delegate != null) {
  T body = this.delegate.extractData(response);
  return new ResponseEntity<T>(body, response.getHeaders(), response.getStatusCode());
  }
 else {
  return new ResponseEntity<T>(response.getHeaders(), response.getStatusCode());
  }
}
/**
 * Response extractor that extracts the response {@link HttpHeaders}.
private static class HeadersExtractor implements ResponseExtractor<HttpHeaders> {
 @Override
 public HttpHeaders extractData(ClientHttpResponse response) throws IOException {
 return response.getHeaders();
}
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
package org.springframework.web.client;
import java.io.IOException;
import java.io.OutputStream;
import java.lang.reflect.Type;
```

```
import java.net.URI;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.TimeoutException;
import org.springframework.core.ParameterizedTypeReference;
import org.springframework.core.task.AsyncListenableTaskExecutor;
import org.springframework.core.task.AsyncTaskExecutor;
import org.springframework.core.task.SimpleAsyncTaskExecutor;
import org.springframework.http.HttpEntity;
import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import org.springframework.http.ResponseEntity;
import org.springframework.http.client.AsyncClientHttpRequest;
import org.springframework.http.client.AsyncClientHttpRequestFactory;
import org.springframework.http.client.ClientHttpRequest;
import org.springframework.http.client.ClientHttpRequestFactory;
import org.springframework.http.client.ClientHttpResponse;
import org.springframework.http.client.SimpleClientHttpRequestFactory;
import org.springframework.http.client.support.AsyncHttpAccessor;
import org.springframework.http.converter.HttpMessageConverter;
import org.springframework.util.Assert;
import org.springframework.util.concurrent.ListenableFuture;
import org.springframework.util.concurrent.ListenableFutureAdapter;
import org.springframework.util.concurrent.ListenableFutureCallback;
import org.springframework.web.util.UriTemplate;
/**
* <strong>Spring's central class for asynchronous client-side HTTP access.</strong>
* Exposes similar methods as {@link RestTemplate}, but returns {@link ListenableFuture}
* wrappers as opposed to concrete results.
* The {@code AsyncRestTemplate} exposes a synchronous {@link RestTemplate} via the
* {@link #getRestOperations()} method, and it shares its
* {@linkplain #setErrorHandler(ResponseErrorHandler) error handler} and
* {@linkplain #setMessageConverters(List) message converters} with this
* { @code RestTemplate }.
* For more information, please refer to the {@link RestTemplate} API documentation.
* @author Arjen Poutsma
* @since 4.0
* @see RestTemplate
public class AsyncRestTemplate extends AsyncHttpAccessor implements AsyncRestOperations {
```

private final RestTemplate syncTemplate;

```
/**
* Create a new instance of the {@code AsyncRestTemplate} using default settings.
* This constructor uses a {@link SimpleClientHttpRequestFactory} in combination
* with a {@link SimpleAsyncTaskExecutor} for asynchronous execution.
public AsyncRestTemplate() {
this(new SimpleAsyncTaskExecutor());
/**
* Create a new instance of the {@code AsyncRestTemplate} using the given
* {@link AsyncTaskExecutor}.
* This constructor uses a {@link SimpleClientHttpRequestFactory} in combination
* with the given {@code AsyncTaskExecutor} for asynchronous execution.
public AsyncRestTemplate(AsyncListenableTaskExecutor taskExecutor) {
Assert.notNull(taskExecutor, "AsyncTaskExecutor must not be null");
SimpleClientHttpRequestFactory requestFactory =
 new SimpleClientHttpRequestFactory();
requestFactory.setTaskExecutor(taskExecutor);
this.syncTemplate = new RestTemplate(requestFactory);
setAsyncRequestFactory(requestFactory);
/**
* Create a new instance of the {@code AsyncRestTemplate} using the given
* {@link AsyncClientHttpRequestFactory}.
* This constructor will cast the given asynchronous
* {@code AsyncClientHttpRequestFactory} to a {@link ClientHttpRequestFactory}. Since
* all implementations of {@code ClientHttpRequestFactory} provided in Spring also
* implement {@code AsyncClientHttpRequestFactory}, this should not result in a
* { @code ClassCastException }.
*/
public AsyncRestTemplate(AsyncClientHttpRequestFactory asyncRequestFactory) {
this(asyncRequestFactory, (ClientHttpRequestFactory) asyncRequestFactory);
}
/**
* Creates a new instance of the {@code AsyncRestTemplate} using the given
* asynchronous and synchronous request factories.
* @param asyncRequestFactory the asynchronous request factory
* @param syncRequestFactory the synchronous request factory
public AsyncRestTemplate(AsyncClientHttpRequestFactory asyncRequestFactory,
```

```
ClientHttpRequestFactory syncRequestFactory) {
this(asyncRequestFactory, new RestTemplate(syncRequestFactory));
/**
* Create a new instance of the {@code AsyncRestTemplate} using the given
* {@link AsyncClientHttpRequestFactory} and synchronous {@link RestTemplate}.
* @param requestFactory the asynchronous request factory to use
* @param restTemplate the synchronous template to use
public AsyncRestTemplate(AsyncClientHttpRequestFactory requestFactory,
 RestTemplate restTemplate) {
Assert.notNull(restTemplate, "'restTemplate' must not be null");
this.syncTemplate = restTemplate;
setAsyncRequestFactory(requestFactory);
}
/**
* Set the error handler.
* By default, AsyncRestTemplate uses a
* {@link org.springframework.web.client.DefaultResponseErrorHandler}.
public void setErrorHandler(ResponseErrorHandler errorHandler) {
this.syncTemplate.setErrorHandler(errorHandler);
}
/** Return the error handler. */
public ResponseErrorHandler getErrorHandler() {
return this.syncTemplate.getErrorHandler();
}
@Override
public RestOperations getRestOperations() {
return this.syncTemplate;
* Set the message body converters to use.
* These converters are used to convert from and to HTTP requests and responses.
public void setMessageConverters(List<HttpMessageConverter<?>> messageConverters) {
this. sync Template. set Message Converters (message Converters);\\
}
* Return the message body converters.
```

```
public List<HttpMessageConverter<?>>> getMessageConverters() {
return syncTemplate.getMessageConverters();
// GET
@Override
public <T> ListenableFuture<ResponseEntity<T>> getForEntity(String url, Class<T> responseType, Object...
uriVariables)
 throws RestClientException {
AsyncRequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, HttpMethod.GET, requestCallback, responseExtractor, uriVariables);
}
@Override
public <T> ListenableFuture<ResponseEntity<T>> getForEntity(String url, Class<T> responseType,
 Map<String, ?> urlVariables) throws RestClientException {
AsyncRequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
}
@Override
public <T> ListenableFuture<ResponseEntity<T>> getForEntity(URI url, Class<T> responseType) throws
RestClientException {
AsyncRequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, HttpMethod.GET, requestCallback, responseExtractor);
// HEAD
@Override
public ListenableFuture<HttpHeaders> headForHeaders(String url, Object... uriVariables) throws
RestClientException {
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
return execute(url, HttpMethod.HEAD, null, headersExtractor, uriVariables);
}
@Override
public ListenableFuture<HttpHeaders> headForHeaders(String url, Map<String, ?> uriVariables) throws
RestClientException {
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
return execute(url, HttpMethod.HEAD, null, headersExtractor, uriVariables);
```

```
}
@Override
public ListenableFuture<HttpHeaders> headForHeaders(URI url) throws RestClientException {
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
return execute(url, HttpMethod.HEAD, null, headersExtractor);
}
// POST
@Override
public ListenableFuture<URI> postForLocation(String url, HttpEntity<?> request,
 Object... uriVariables) throws RestClientException {
AsyncRequestCallback requestCallback = httpEntityCallback(request);
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
ListenableFuture<HttpHeaders> headersFuture =
 execute(url, HttpMethod.POST, requestCallback, headersExtractor,
  uriVariables);
return extractLocationHeader(headersFuture);
}
@Override
public ListenableFuture<URI> postForLocation(String url, HttpEntity<?> request,
 Map<String, ?> uriVariables) throws RestClientException {
AsyncRequestCallback requestCallback = httpEntityCallback(request);
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
ListenableFuture<HttpHeaders> headersFuture =
 execute (url,\,HttpMethod.POST,\,requestCallback,\,headersExtractor,\,
  uriVariables);
return extractLocationHeader(headersFuture);
}
@Override
public ListenableFuture<URI> postForLocation(URI url, HttpEntity<?> request)
 throws RestClientException {
AsyncRequestCallback requestCallback = httpEntityCallback(request);
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
ListenableFuture<HttpHeaders> headersFuture =
 execute(url, HttpMethod.POST, requestCallback, headersExtractor);
return extractLocationHeader(headersFuture);
}
private static ListenableFuture<URI> extractLocationHeader(final ListenableFuture<HttpHeaders> headersFuture) {
return new ListenableFuture<URI>() {
 @Override
 public void addCallback(final ListenableFutureCallback<? super URI> callback) {
 headersFuture.addCallback(new ListenableFutureCallback<HttpHeaders>() {
```

```
@Override
  public void onSuccess(HttpHeaders result) {
  callback.onSuccess(result.getLocation());
  }
  @Override
  public void onFailure(Throwable t) {
  callback.onFailure(t);
  }
 });
 }
 @Override
 public boolean cancel(boolean mayInterruptIfRunning) {
 return headersFuture.cancel(mayInterruptIfRunning);
 }
 @Override
 public boolean isCancelled() {
 return headersFuture.isCancelled();
 }
 @Override
 public boolean isDone() {
 return headersFuture.isDone();
 @Override
 public URI get() throws InterruptedException, ExecutionException {
 HttpHeaders headers = headersFuture.get();
 return headers.getLocation();
 }
 @Override
 public URI get(long timeout, TimeUnit unit)
  throws InterruptedException, ExecutionException, TimeoutException {
 HttpHeaders headers = headersFuture.get(timeout, unit);
 return headers.getLocation();
 }
};
}
@Override
public <T> ListenableFuture<ResponseEntity<T>> postForEntity(String url, HttpEntity<?> request,
 Class<T> responseType, Object... uriVariables) throws RestClientException {
AsyncRequestCallback requestCallback = httpEntityCallback(request, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor =
 responseEntityExtractor(responseType);
return execute(url, HttpMethod.POST, requestCallback, responseExtractor,
 uriVariables);
}
```

```
@Override
public <T> ListenableFuture<ResponseEntity<T>> postForEntity(String url, HttpEntity<?> request,
 Class<T> responseType, Map<String, ?> uriVariables)
 throws RestClientException {
AsyncRequestCallback requestCallback = httpEntityCallback(request, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor =
 responseEntityExtractor(responseType);
return execute(url, HttpMethod.POST, requestCallback, responseExtractor,
 uriVariables);
}
@Override
public <T> ListenableFuture<ResponseEntity<T>> postForEntity(URI url, HttpEntity<?> request,
 Class<T> responseType) throws RestClientException {
AsyncRequestCallback requestCallback = httpEntityCallback(request, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor =
 responseEntityExtractor(responseType);
return execute(url, HttpMethod.POST, requestCallback, responseExtractor);
}
// PUT
@Override
public ListenableFuture<?> put(String url, HttpEntity<?> request, Object... uriVariables)
 throws RestClientException {
AsyncRequestCallback requestCallback = httpEntityCallback(request);
return execute(url, HttpMethod.PUT, requestCallback, null, uriVariables);
}
@Override
public ListenableFuture<?> put(String url, HttpEntity<?> request,
 Map<String, ?> uriVariables) throws RestClientException {
AsyncRequestCallback requestCallback = httpEntityCallback(request);
return execute(url, HttpMethod.PUT, requestCallback, null, uriVariables);
}
@Override
public ListenableFuture<?> put(URI url, HttpEntity<?> request) throws RestClientException {
AsyncRequestCallback requestCallback = httpEntityCallback(request);
return execute(url, HttpMethod.PUT, requestCallback, null);
}
// DELETE
@Override
public ListenableFuture<?> delete(String url, Object... urlVariables)
 throws RestClientException {
return execute(url, HttpMethod.DELETE, null, null, urlVariables);
```

```
}
@Override
public ListenableFuture<?> delete(String url, Map<String, ?> urlVariables)
 throws RestClientException {
return execute(url, HttpMethod.DELETE, null, null, urlVariables);
}
@Override
public ListenableFuture<?> delete(URI url) throws RestClientException {
return execute(url, HttpMethod.DELETE, null, null);
// OPTIONS
@Override
public ListenableFuture<Set<HttpMethod>> optionsForAllow(String url, Object... uriVariables) throws
RestClientException {
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
ListenableFuture<httpHeaders> headersFuture = execute(url, HttpMethod.OPTIONS, null, headersExtractor,
uriVariables);
return extractAllowHeader(headersFuture);
}
@Override
public ListenableFuture<Set<HttpMethod>> optionsForAllow(String url, Map<String, ?> uriVariables) throws
RestClientException {
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
ListenableFuture<HttpHeaders> headersFuture = execute(url, HttpMethod.OPTIONS, null, headersExtractor,
uriVariables);
return extractAllowHeader(headersFuture);
}
@Override
public ListenableFuture<Set<HttpMethod>> optionsForAllow(URI url) throws RestClientException {
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
ListenableFuture<br/>
HttpHeaders> headersFuture = execute(url, HttpMethod.OPTIONS, null, headersExtractor);
return extractAllowHeader(headersFuture);
private static ListenableFuture<Set<HttpMethod>> extractAllowHeader(final ListenableFuture<HttpHeaders>
headersFuture) {
return new ListenableFuture<Set<HttpMethod>>() {
 @Override
 public void addCallback(
  final ListenableFutureCallback<? super Set<HttpMethod>> callback) {
 headersFuture.addCallback(new ListenableFutureCallback<HttpHeaders>() {
```

```
@Override
  public void onSuccess(HttpHeaders result) {
  callback.onSuccess(result.getAllow());
  }
  @Override
  public void onFailure(Throwable t) {
  callback.onFailure(t);
  }
 });
 }
 @Override
 public boolean cancel(boolean mayInterruptIfRunning) {
 return headersFuture.cancel(mayInterruptIfRunning);
 }
 @Override
 public boolean isCancelled() {
 return headersFuture.isCancelled();
 }
 @Override
 public boolean isDone() {
 return headersFuture.isDone();
 @Override
 public Set<HttpMethod> get() throws InterruptedException, ExecutionException {
 HttpHeaders headers = headersFuture.get();
 return headers.getAllow();
 }
 @Override
 public Set<HttpMethod> get(long timeout, TimeUnit unit)
  throws InterruptedException, ExecutionException, TimeoutException {
 HttpHeaders headers = headersFuture.get(timeout, unit);
 return headers.getAllow();
 }
};
}
// exchange
@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(String url, HttpMethod method,
 HttpEntity<?> requestEntity, Class<T> responseType, Object... uriVariables)
 throws RestClientException {
AsyncRequestCallback requestCallback =
 httpEntityCallback(requestEntity, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor =
```

```
responseEntityExtractor(responseType);
return execute(url, method, requestCallback, responseExtractor, uriVariables);
@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(String url, HttpMethod method,
 HttpEntity<?> requestEntity, Class<T> responseType,
 Map<String, ?> uriVariables) throws RestClientException {
AsyncRequestCallback requestCallback =
 httpEntityCallback(requestEntity, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor =
 responseEntityExtractor(responseType);
return execute(url, method, requestCallback, responseExtractor, uriVariables);
@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(URI url, HttpMethod method,
 HttpEntity<?> requestEntity, Class<T> responseType)
 throws RestClientException {
AsyncRequestCallback requestCallback =
 httpEntityCallback(requestEntity, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor =
 responseEntityExtractor(responseType);
return execute(url, method, requestCallback, responseExtractor);
}
@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(String url, HttpMethod method,
 HttpEntity<?> requestEntity, ParameterizedTypeReference<T> responseType,
 Object... uriVariables) throws RestClientException {
Type type = responseType.getType();
AsyncRequestCallback requestCallback = httpEntityCallback(requestEntity, type);
ResponseExtractor<ResponseEntity<T>> responseExtractor =
 responseEntityExtractor(type);
return execute(url, method, requestCallback, responseExtractor, uriVariables);
@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(String url, HttpMethod method,
 HttpEntity<?> requestEntity, ParameterizedTypeReference<T> responseType,
 Map<String, ?> uriVariables) throws RestClientException {
Type type = responseType.getType();
AsyncRequestCallback requestCallback = httpEntityCallback(requestEntity, type);
ResponseExtractor<ResponseEntity<T>> responseExtractor =
 responseEntityExtractor(type);
return\ execute (url,\ method,\ request Callback,\ response Extractor,\ uri Variables);
}
```

```
@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(URI url, HttpMethod method,
 HttpEntity<?> requestEntity, ParameterizedTypeReference<T> responseType)
 throws RestClientException {
Type type = responseType.getType();
AsyncRequestCallback requestCallback = httpEntityCallback(requestEntity, type);
ResponseExtractor<ResponseEntity<T>> responseExtractor =
 responseEntityExtractor(type);
return execute(url, method, requestCallback, responseExtractor);
}
// general execution
@Override
public <T> ListenableFuture<T> execute(String url, HttpMethod method,
 AsyncRequestCallback requestCallback, ResponseExtractor<T> responseExtractor,
 Object... urlVariables) throws RestClientException {
URI expanded = new UriTemplate(url).expand(urlVariables);
return doExecute(expanded, method, requestCallback, responseExtractor);
}
@Override
public <T> ListenableFuture<T> execute(String url, HttpMethod method,
 AsyncRequestCallback requestCallback, ResponseExtractor<T> responseExtractor,
 Map<String, ?> urlVariables) throws RestClientException {
URI expanded = new UriTemplate(url).expand(urlVariables);
return doExecute(expanded, method, requestCallback, responseExtractor);
}
@Override
public <T> ListenableFuture<T> execute(URI url, HttpMethod method,
 AsyncRequestCallback requestCallback, ResponseExtractor<T> responseExtractor)
 throws RestClientException {
return doExecute(url, method, requestCallback, responseExtractor);
/**
* Execute the given method on the provided URI. The
* { @link org.springframework.http.client.ClientHttpRequest}
* is processed using the {@link RequestCallback}; the response with
* the {@link ResponseExtractor}.
* @param url the fully-expanded URL to connect to
* @param method the HTTP method to execute (GET, POST, etc.)
* @param requestCallback object that prepares the request (can be {@code null})
```

```
* @param responseExtractor object that extracts the return value from the response (can
* be {@code null})
 * @return an arbitrary object, as returned by the { @link ResponseExtractor}
protected <T> ListenableFuture<T> doExecute(URI url, HttpMethod method, AsyncRequestCallback
requestCallback,
 ResponseExtractor<T> responseExtractor) throws RestClientException {
Assert.notNull(url, "'url' must not be null");
Assert.notNull(method, "'method' must not be null");
 AsyncClientHttpRequest request = createAsyncRequest(url, method);
 if (requestCallback != null) {
  requestCallback.doWithRequest(request);
 ListenableFuture<ClientHttpResponse> responseFuture = request.executeAsync();
 return new ResponseExtractorFuture<T>(method, url, responseFuture,
  responseExtractor);
 }
catch (IOException ex) {
 throw new ResourceAccessException("I/O error on " + method.name() +
  " request for \"" + url + "\":" + ex.getMessage(), ex);
}
}
private void logResponseStatus(HttpMethod method, URI url, ClientHttpResponse response) {
if (logger.isDebugEnabled()) {
 try {
  logger.debug("Async " + method.name() + " request for \"" + url +
   "\" resulted in " + response.getStatusCode() + " (" +
   response.getStatusText() + ")");
 catch (IOException ex) {
 // ignore
 }
 }
}
private void handleResponseError(HttpMethod method, URI url, ClientHttpResponse response) throws IOException
if (logger.isWarnEnabled()) {
 try {
  logger.warn("Async " + method.name() + " request for \"" + url +
   "\" resulted in " + response.getStatusCode() + " (" +
   response.getStatusText() + "); invoking error handler");
 }
 catch (IOException ex) {
 // ignore
```

```
}
}
getErrorHandler().handleError(response);
}
/**
* Returns a request callback implementation that prepares the request {@code Accept}
* headers based on the given response type and configured {@linkplain
* #getMessageConverters() message converters}.
protected <T> AsyncRequestCallback acceptHeaderRequestCallback(Class<T> responseType) {
return new AsyncRequestCallbackAdapter(this.syncTemplate.acceptHeaderRequestCallback(responseType));
}
/**
* Returns a request callback implementation that writes the given object to the
* request stream.
*/
protected <T> AsyncRequestCallback httpEntityCallback(HttpEntity<T> requestBody) {
return new AsyncRequestCallbackAdapter(this.syncTemplate.httpEntityCallback(requestBody));
/**
* Returns a request callback implementation that writes the given object to the
* request stream.
protected <T> AsyncRequestCallback httpEntityCallback(HttpEntity<T> request, Type responseType) {
return\ new\ A syncRequest Callback Adapter (this.syncTemplate.httpEntityCallback (request,\ responseType));
}
/**
* Returns a response extractor for {@link ResponseEntity}.
protected <T> ResponseExtractor<ResponseEntity<T>> responseEntityExtractor(Type responseType) {
return this.syncTemplate.responseEntityExtractor(responseType);
* Returns a response extractor for {@link HttpHeaders}.
*/
protected ResponseExtractor<HttpHeaders> headersExtractor() {
return this.syncTemplate.headersExtractor();
}
/**
* Future returned from
* {@link #doExecute(URI, HttpMethod, AsyncRequestCallback, ResponseExtractor)}
```

```
private class ResponseExtractorFuture<T>
 extends ListenableFutureAdapter<T, ClientHttpResponse> {
private final HttpMethod method;
private final URI url;
private final ResponseExtractor<T> responseExtractor;
public ResponseExtractorFuture(HttpMethod method, URI url,
 ListenableFuture<ClientHttpResponse> clientHttpResponseFuture,
 ResponseExtractor<T> responseExtractor) {
 super(clientHttpResponseFuture);
 this.method = method;
 this.url = url;
 this.responseExtractor = responseExtractor;
}
@Override
protected final T adapt(ClientHttpResponse response) throws ExecutionException {
 try {
 if (!getErrorHandler().hasError(response)) {
  logResponseStatus(this.method, this.url, response);
 else {
  handleResponseError(this.method, this.url, response);
 return convertResponse(response);
 catch (IOException ex) {
 throw new ExecutionException(ex);
 }
 finally {
 if (response != null) {
  response.close();
 }
 }
}
protected T convertResponse(ClientHttpResponse response) throws IOException {
 return responseExtractor != null ? responseExtractor.extractData(response) :
  null;
}
}
* Adapts a {@link RequestCallback} to the {@link AsyncRequestCallback} interface.
```

```
*/
private static class AsyncRequestCallbackAdapter implements AsyncRequestCallback {
private final RequestCallback adaptee;
/**
 * Create a new {@code AsyncRequestCallbackAdapter} from the given
 * {@link RequestCallback}.
 * @param requestCallback the callback to base this adapter on
public AsyncRequestCallbackAdapter(RequestCallback requestCallback) {
 this.adaptee = requestCallback;
 }
 @Override
public void doWithRequest(final AsyncClientHttpRequest request) throws IOException {
 if (this.adaptee != null) {
  this.adaptee.doWithRequest(new ClientHttpRequest() {
  @Override
  public ClientHttpResponse execute() throws IOException {
   throw new UnsupportedOperationException("execute not supported");
  }
  @Override
  public OutputStream getBody() throws IOException {
   return request.getBody();
  }
  @Override
  public HttpMethod getMethod() {
   return request.getMethod();
  @Override
  public URI getURI() {
   return request.getURI();
  }
  @Override
  public HttpHeaders getHeaders() {
   return request.getHeaders();
  }
  });
}
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```

```
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* limitations under the License.
package org.springframework.http.client;
import java.io.IOException;
import java.net.HttpURLConnection;
import java.net.Proxy;
import java.net.URI;
import java.net.URL;
import java.net.URLConnection;
import org.springframework.core.task.AsyncListenableTaskExecutor;
import org.springframework.http.HttpMethod;
import org.springframework.util.Assert;
* {@link ClientHttpRequestFactory} implementation that uses standard J2SE facilities.
* @author Arjen Poutsma
* @author Juergen Hoeller
* @since 3.0
* @see java.net.HttpURLConnection
* @see HttpComponentsClientHttpRequestFactory
public class SimpleClientHttpRequestFactory
 implements ClientHttpRequestFactory, AsyncClientHttpRequestFactory {
private static final int DEFAULT_CHUNK_SIZE = 4096;
private Proxy proxy;
private boolean bufferRequestBody = true;
private int chunkSize = DEFAULT_CHUNK_SIZE;
private int connectTimeout = -1;
```

```
private int readTimeout = -1;
private boolean outputStreaming = true;
private AsyncListenableTaskExecutor taskExecutor;
/**
* Set the {@link Proxy} to use for this request factory.
public void setProxy(Proxy proxy) {
this.proxy = proxy;
}
/**
* Indicates whether this request factory should buffer the {@linkplain ClientHttpRequest#getBody() request body}
* internally.
* Default is {@code true}. When sending large amounts of data via POST or PUT, it is recommended
 * to change this property to {@code false}, so as not to run out of memory. This will result in a
* {@link ClientHttpRequest} that either streams directly to the underlying {@link HttpURLConnection}
* (if the {@link org.springframework.http.HttpHeaders#getContentLength() Content-Length} is known in
advance).
* or that will use "Chunked transfer encoding" (if the {@code Content-Length} is not known in advance).
* @see #setChunkSize(int)
 * @see HttpURLConnection#setFixedLengthStreamingMode(int)
public void setBufferRequestBody(boolean bufferRequestBody) {
this.bufferRequestBody = bufferRequestBody;
}
/**
* Sets the number of bytes to write in each chunk when not buffering request bodies locally.
* Note that this parameter is only used when {@link #setBufferRequestBody(boolean) bufferRequestBody} is
set
* to {@code false}, and the {@link org.springframework.http.HttpHeaders#getContentLength() Content-Length}
* is not known in advance.
 * @see #setBufferRequestBody(boolean)
public void setChunkSize(int chunkSize) {
this.chunkSize = chunkSize;
}
/**
* Set the underlying URLConnection's connect timeout (in milliseconds).
* A timeout value of 0 specifies an infinite timeout.
 * Default is the system's default timeout.
* @see URLConnection#setConnectTimeout(int)
```

```
public void setConnectTimeout(int connectTimeout) {
this.connectTimeout = connectTimeout:
/**
* Set the underlying URLConnection's read timeout (in milliseconds).
* A timeout value of 0 specifies an infinite timeout.
* Default is the system's default timeout.
* @see URLConnection#setReadTimeout(int)
public void setReadTimeout(int readTimeout) {
this.readTimeout = readTimeout;
}
/**
* Set if the underlying URLConnection can be set to 'output streaming' mode. When
* output streaming is enabled, authentication and redirection cannot be handled
* automatically. If output streaming is disabled the
* { @link HttpURLConnection#setFixedLengthStreamingMode(int)
* setFixedLengthStreamingMode} and
* {@link HttpURLConnection#setChunkedStreamingMode(int) setChunkedStreamingMode}
* methods of the underlying connection will never be called.
* Default is {@code true}.
* @param outputStreaming if output streaming is enabled
public void setOutputStreaming(boolean outputStreaming) {
this.outputStreaming = outputStreaming;
}
/**
* Sets the task executor for this request factory. Setting this property is required
* for {@linkplain #createAsyncRequest(URI, HttpMethod) creating asynchronous
* request \}.
* @param taskExecutor the task executor
public void setTaskExecutor(AsyncListenableTaskExecutor taskExecutor) {
this.taskExecutor = taskExecutor;
}
@Override
public ClientHttpRequest createRequest(URI uri, HttpMethod) throws IOException {
HttpURLConnection connection = openConnection(uri.toURL(), this.proxy);
prepareConnection(connection, httpMethod.name());
if (this.bufferRequestBody) {
 return new SimpleBufferingClientHttpRequest(connection, this.outputStreaming);
}
 return new SimpleStreamingClientHttpRequest(connection, this.chunkSize, this.outputStreaming);
```

```
/**
* { @inheritDoc }
 * Setting the {@link #setTaskExecutor(org.springframework.core.task.AsyncListenableTaskExecutor)
taskExecutor} property
 * is required before calling this method.
@Override
public AsyncClientHttpRequest createAsyncRequest(URI uri, HttpMethod httpMethod)
 throws IOException {
Assert.state(this.taskExecutor != null, "Asynchronous execution requires an " +
  "AsyncTaskExecutor to be set");
HttpURLConnection connection = openConnection(uri.toURL(), this.proxy);
prepareConnection(connection, httpMethod.name());
if (this.bufferRequestBody) {
 return new SimpleBufferingAsyncClientHttpRequest(connection, this.outputStreaming, this.taskExecutor);
}
else {
 return new SimpleStreamingAsyncClientHttpRequest(connection, this.chunkSize,
  this.outputStreaming, this.taskExecutor);
 }
/**
* Opens and returns a connection to the given URL.
 * The default implementation uses the given {@linkplain #setProxy(java.net.Proxy) proxy} -
* if any - to open a connection.
 * @param url the URL to open a connection to
 * @param proxy the proxy to use, may be {@code null}
* @return the opened connection
 * @throws IOException in case of I/O errors
*/
protected HttpURLConnection openConnection(URL url, Proxy proxy) throws IOException {
URLConnection urlConnection = (proxy != null ? url.openConnection(proxy) : url.openConnection());
Assert.isInstanceOf(HttpURLConnection.class, urlConnection);
return (HttpURLConnection) urlConnection;
 * Template method for preparing the given {@link HttpURLConnection}.
 * The default implementation prepares the connection for input and output, and sets the HTTP method.
* @param connection the connection to prepare
 * @param httpMethod the HTTP request method ({ @code GET}, { @code POST}, etc.)
 * @throws IOException in case of I/O errors
protected void prepareConnection(HttpURLConnection connection, String httpMethod) throws IOException {
```

```
if (this.connectTimeout \geq 0) {
 connection.setConnectTimeout(this.connectTimeout);
 if (this.readTimeout >= 0) {
 connection.setReadTimeout(this.readTimeout);
 connection.setDoInput(true);
 if ("GET".equals(httpMethod)) {
 connection.setInstanceFollowRedirects(true);
 }
 else {
 connection.setInstanceFollowRedirects(false);
 if ("PUT".equals(httpMethod) || "POST".equals(httpMethod) || "PATCH".equals(httpMethod)) {
 connection.setDoOutput(true);
 }
 else {
 connection.setDoOutput(false);
 }
 connection. set Request Method (httpMethod);\\
}
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*/
package org.springframework.http.client;
import java.io.IOException;
import java.io.InputStream;
import java.net.HttpURLConnection;
import org.springframework.http.HttpHeaders;
import org.springframework.util.StringUtils;
```

```
/**
* {@link ClientHttpResponse} implementation that uses standard J2SE facilities.
* Obtained via {@link SimpleBufferingClientHttpRequest#execute()} and
* { @link SimpleStreamingClientHttpRequest#execute()}.
* @author Arjen Poutsma
* @since 3.0
final class SimpleClientHttpResponse extends AbstractClientHttpResponse {
private final HttpURLConnection connection;
private HttpHeaders headers;
SimpleClientHttpResponse(HttpURLConnection connection) {
 this.connection = connection;
@Override
public int getRawStatusCode() throws IOException {
 return this.connection.getResponseCode();
@Override
public String getStatusText() throws IOException {
return this.connection.getResponseMessage();
}
@Override
public HttpHeaders getHeaders() {
 if (this.headers == null) {
 this.headers = new HttpHeaders();
 // Header field 0 is the status line for most HttpURLConnections, but not on GAE
 String name = this.connection.getHeaderFieldKey(0);
 if (StringUtils.hasLength(name)) {
  this.headers.add(name, this.connection.getHeaderField(0));
 int i = 1;
 while (true) {
  name = this.connection.getHeaderFieldKey(i);
  if (!StringUtils.hasLength(name)) {
  break;
  this.headers.add(name, this.connection.getHeaderField(i));
  i++;
 }
```

```
}
 return this.headers;
@Override
public InputStream getBody() throws IOException {
 InputStream errorStream = this.connection.getErrorStream();
 return (errorStream != null ? errorStream : this.connection.getInputStream());
@Override
public void close() {
 this.connection.disconnect();
}
}
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* limitations under the License.
*/
package org.springframework.http.client;
import java.io.IOException;
import java.io.OutputStream;
import java.net.HttpURLConnection;
import java.net.URI;
import java.net.URISyntaxException;
import java.util.List;
import java.util.Map;
import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import org.springframework.util.StreamUtils;
* {@link ClientHttpRequest} implementation that uses standard J2SE facilities to execute streaming requests.
```

```
* Created via the {@link SimpleClientHttpRequestFactory}.
* @author Arjen Poutsma
* @since 3.0
* @ see SimpleClientHttpRequestFactory#createRequest(java.net.URI, HttpMethod)
final class SimpleStreamingClientHttpRequest extends AbstractClientHttpRequest {
private final HttpURLConnection connection;
private final int chunkSize;
private OutputStream body;
private final boolean outputStreaming;
SimpleStreamingClientHttpRequest(HttpURLConnection connection, int chunkSize,
 boolean outputStreaming) {
 this.connection = connection;
 this.chunkSize = chunkSize;
 this.outputStreaming = outputStreaming;
}
@Override
public HttpMethod getMethod() {
 return HttpMethod.valueOf(this.connection.getRequestMethod());
}
@Override
public URI getURI() {
 return this.connection.getURL().toURI();
 }
 catch (URISyntaxException ex) {
 throw new IllegalStateException("Could not get HttpURLConnection URI: " + ex.getMessage(), ex);
}
@Override
protected OutputStream getBodyInternal(HttpHeaders headers) throws IOException {
 if (this.body == null) {
 if(this.outputStreaming) {
  int contentLength = (int) headers.getContentLength();
  if (contentLength >= 0) {
  this. connection. set Fixed Length Streaming Mode (content Length);\\
  }
  else {
```

```
this.connection.setChunkedStreamingMode(this.chunkSize);
  }
  }
 writeHeaders(headers);
 this.connection.connect();
 this.body = this.connection.getOutputStream();
 }
 return StreamUtils.nonClosing(this.body);
private void writeHeaders(HttpHeaders headers) {
 for (Map.Entry<String, List<String>> entry: headers.entrySet()) {
 String headerName = entry.getKey();
 for (String headerValue : entry.getValue()) {
  this.connection.addRequestProperty(headerName, headerValue);
  }
 }
@Override
protected ClientHttpResponse executeInternal(HttpHeaders headers) throws IOException {
 try {
 if (this.body != null) {
  this.body.close();
  }
 else {
  writeHeaders(headers);
  this.connection.connect();
  }
 catch (IOException ex) {
 // ignore
 }
 return new SimpleClientHttpResponse(this.connection);
}
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```

```
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* limitations under the License.
package org.springframework.http.client;
import java.io.IOException;
import java.net.HttpURLConnection;
import java.net.URI;
import java.net.URISyntaxException;
import java.util.List;
import java.util.Map;
import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import\ org. spring framework. util. File Copy Utils;
/**
* {@link ClientHttpRequest} implementation that uses standard J2SE facilities to execute buffered requests.
* Created via the {@link SimpleClientHttpRequestFactory}.
* @author Arjen Poutsma
* @since 3.0
* @ see SimpleClientHttpRequestFactory#createRequest(java.net.URI, HttpMethod)
final class SimpleBufferingClientHttpRequest extends AbstractBufferingClientHttpRequest {
private final HttpURLConnection connection;
private final boolean outputStreaming;
SimpleBufferingClientHttpRequest(HttpURLConnection connection, boolean outputStreaming) {
 this.connection = connection;
 this.output Streaming = output Streaming; \\
@Override
public HttpMethod getMethod() {
 return HttpMethod.valueOf(this.connection.getRequestMethod());
}
@Override
public URI getURI() {
 try {
 return this.connection.getURL().toURI();
```

```
}
 catch (URISyntaxException ex) {
 throw new IllegalStateException("Could not get HttpURLConnection URI: " + ex.getMessage(), ex);
 }
}
@Override
protected ClientHttpResponse executeInternal(HttpHeaders headers, byte[] bufferedOutput) throws IOException {
 for (Map.Entry<String, List<String>> entry : headers.entrySet()) {
 String headerName = entry.getKey();
 for (String headerValue : entry.getValue()) {
  this.connection.addRequestProperty(headerName, headerValue);
  }
 }
 if (this.connection.getDoOutput() && this.outputStreaming) {
 this.connection.setFixedLengthStreamingMode(bufferedOutput.length);
 this.connection.connect();
 if (this.connection.getDoOutput()) {
 FileCopyUtils.copy(bufferedOutput, this.connection.getOutputStream());
 }
 return new SimpleClientHttpResponse(this.connection);
}
}
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* limitations under the License.
package org.springframework.http.client;
import java.io.IOException;
import java.io.OutputStream;
import java.net.HttpURLConnection;
```

```
import java.net.URI;
import java.net.URISyntaxException;
import java.util.List;
import java.util.Map;
import java.util.concurrent.Callable;
import org.springframework.core.task.AsyncListenableTaskExecutor;
import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import org.springframework.util.StreamUtils;
import org.springframework.util.concurrent.ListenableFuture;
/**
* {@link org.springframework.http.client.ClientHttpRequest} implementation that uses
* standard J2SE facilities to execute streaming requests. Created via the {@link
* org.springframework.http.client.SimpleClientHttpRequestFactory}.
* @author Arjen Poutsma
* @see org.springframework.http.client.SimpleClientHttpRequestFactory#createRequest(java.net.URI,
    org.springframework.http.HttpMethod)
* @since 3.0
*/
final class SimpleStreamingAsyncClientHttpRequest extends AbstractAsyncClientHttpRequest {
private final HttpURLConnection connection;
private final int chunkSize;
private OutputStream body;
private final boolean outputStreaming;
private final AsyncListenableTaskExecutor taskExecutor;
SimpleStreamingAsyncClientHttpRequest(HttpURLConnection connection, int chunkSize,
 boolean outputStreaming, AsyncListenableTaskExecutor taskExecutor) {
 this.connection = connection;
 this.chunkSize = chunkSize;
 this.outputStreaming = outputStreaming;
 this.taskExecutor = taskExecutor;
}
@Override
public HttpMethod getMethod() {
 return HttpMethod.valueOf(this.connection.getRequestMethod());
@Override
```

```
public URI getURI() {
try {
 return this.connection.getURL().toURI();
}
catch (URISyntaxException ex) {
 throw new IllegalStateException(
  "Could not get HttpURLConnection URI: " + ex.getMessage(), ex);
}
}
@Override
protected OutputStream getBodyInternal(HttpHeaders headers) throws IOException {
if (this.body == null) {
 if (this.outputStreaming) {
 int contentLength = (int) headers.getContentLength();
 if (contentLength >= 0) {
  this.connection.setFixedLengthStreamingMode(contentLength);
 else {
  this. connection. set Chunked Streaming Mode (this. chunk Size);\\
 }
 writeHeaders(headers);
 this.connection.connect();
 this.body = this.connection.getOutputStream();
return StreamUtils.nonClosing(this.body);
}
private void writeHeaders(HttpHeaders headers) {
for (Map.Entry<String, List<String>> entry: headers.entrySet()) {
 String headerName = entry.getKey();
 for (String headerValue : entry.getValue()) {
 this.connection.addRequestProperty(headerName, headerValue);
 }
}
}
@Override
protected ListenableFuture<ClientHttpResponse> executeInternal(final HttpHeaders headers)
 throws IOException {
return taskExecutor.submitListenable(new Callable<ClientHttpResponse>() {
 @Override
 public ClientHttpResponse call() throws Exception {
 try {
  if (body != null) {
  body.close();
  }
```

```
else {
   writeHeaders(headers);
   connection.connect();
   }
  }
  catch (IOException ex) {
  // ignore
  return new SimpleClientHttpResponse(connection);
  }
 });
}
}
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package org.springframework.http.client;
import java.io.IOException;
import java.net.HttpURLConnection;
import java.net.URI;
import java.net.URISyntaxException;
import java.util.List;
import java.util.Map;
import java.util.concurrent.Callable;
import org.springframework.core.task.AsyncListenableTaskExecutor;
import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import org.springframework.util.FileCopyUtils;
import org.springframework.util.concurrent.ListenableFuture;
/**
```

```
* {@link org.springframework.http.client.ClientHttpRequest} implementation that uses
* standard J2SE facilities to execute buffered requests. Created via the
* {@link org.springframework.http.client.SimpleClientHttpRequestFactory}.
* @author Arjen Poutsma
* @since 3.0
* @see org.springframework.http.client.SimpleClientHttpRequestFactory#createRequest(java.net.URI,
org.springframework.http.HttpMethod)
final class SimpleBufferingAsyncClientHttpRequest extends AbstractBufferingAsyncClientHttpRequest {
private final HttpURLConnection connection;
private final boolean outputStreaming;
private final AsyncListenableTaskExecutor taskExecutor;
SimpleBufferingAsyncClientHttpRequest(HttpURLConnection connection,
 boolean outputStreaming, AsyncListenableTaskExecutor taskExecutor) {
 this.connection = connection;
 this.outputStreaming = outputStreaming;
 this.taskExecutor = taskExecutor;
}
@Override
public HttpMethod getMethod() {
 return HttpMethod.valueOf(this.connection.getRequestMethod());
}
@Override
public URI getURI() {
 return this.connection.getURL().toURI();
 }
 catch (URISyntaxException ex) {
 throw new IllegalStateException("Could not get HttpURLConnection URI: " + ex.getMessage(), ex);
 }
}
@Override
protected ListenableFuture<ClientHttpResponse> executeInternal(
 final HttpHeaders headers, final byte[] bufferedOutput) throws IOException {
 return taskExecutor.submitListenable(new Callable<ClientHttpResponse>() {
 @Override
 public ClientHttpResponse call() throws Exception {
  for (Map.Entry<String, List<String>> entry: headers.entrySet()) {
  String headerName = entry.getKey();
  for (String headerValue : entry.getValue()) {
```

```
connection.addRequestProperty(headerName, headerValue);
  if (connection.getDoOutput() && outputStreaming) {
   connection.set Fixed Length Streaming Mode (buffered Output.length);\\
  }
  connection.connect();
  if (connection.getDoOutput()) {
  FileCopyUtils.copy(bufferedOutput, connection.getOutputStream());
  return new SimpleClientHttpResponse(connection);
  }
 });
}
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package org.springframework.remoting.httpinvoker;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.net.HttpURLConnection;
import java.net.URL;
import java.net.URLConnection;
import java.util.Locale;
import java.util.zip.GZIPInputStream;
import org.springframework.context.i18n.LocaleContext;
import org.springframework.context.i18n.LocaleContextHolder;
import org.springframework.remoting.support.RemoteInvocationResult;
```

```
import org.springframework.util.StringUtils;
/**
* HttpInvokerRequestExecutor implementation that uses standard J2SE facilities
* to execute POST requests, without support for HTTP authentication or
* advanced configuration options.
* Designed for easy subclassing, customizing specific template methods.
* However, consider CommonsHttpInvokerRequestExecutor for more sophisticated
* needs: The J2SE HttpURLConnection is rather limited in its capabilities.
* @author Juergen Hoeller
* @since 1.1
* @see java.net.HttpURLConnection
public class SimpleHttpInvokerRequestExecutor extends AbstractHttpInvokerRequestExecutor {
private int connectTimeout = -1;
private int readTimeout = -1;
/**
 * Set the underlying URLConnection's connect timeout (in milliseconds).
 * A timeout value of 0 specifies an infinite timeout.
 * Default is the system's default timeout.
 * @see URLConnection#setConnectTimeout(int)
public void setConnectTimeout(int connectTimeout) {
 this.connectTimeout = connectTimeout;
}
/**
 * Set the underlying URLConnection's read timeout (in milliseconds).
 * A timeout value of 0 specifies an infinite timeout.
 * Default is the system's default timeout.
 * @see URLConnection#setReadTimeout(int)
public void setReadTimeout(int readTimeout) {
 this.readTimeout = readTimeout;
}
```

/\*\*

- \* Execute the given request through a standard J2SE HttpURLConnection.
- \* This method implements the basic processing workflow:
- \* The actual work happens in this class's template methods.
- \* @see #openConnection

```
* @see #prepareConnection
* @see #writeRequestBody
* @see #validateResponse
* @see #readResponseBody
@Override
protected RemoteInvocationResult doExecuteRequest(
 HttpInvokerClientConfiguration config, ByteArrayOutputStream baos)
 throws IOException, ClassNotFoundException {
HttpURLConnection con = openConnection(config);
prepareConnection(con, baos.size());
writeRequestBody(config, con, baos);
validateResponse(config, con);
InputStream responseBody = readResponseBody(config, con);
return readRemoteInvocationResult(responseBody, config.getCodebaseUrl());
/**
* Open an HttpURLConnection for the given remote invocation request.
* @param config the HTTP invoker configuration that specifies the
* target service
* @return the HttpURLConnection for the given request
* @throws IOException if thrown by I/O methods
* @see java.net.URL#openConnection()
protected HttpURLConnection openConnection(HttpInvokerClientConfiguration config) throws IOException {
URLConnection con = new URL(config.getServiceUrl()).openConnection();
if (!(con instanceof HttpURLConnection)) {
 throw new IOException("Service URL [" + config.getServiceUrl() + "] is not an HTTP URL");
return (HttpURLConnection) con;
}
* Prepare the given HTTP connection.
* The default implementation specifies POST as method,
* "application/x-java-serialized-object" as "Content-Type" header,
* and the given content length as "Content-Length" header.
* @param connection the HTTP connection to prepare
* @param contentLength the length of the content to send
* @throws IOException if thrown by HttpURLConnection methods
* @see java.net.HttpURLConnection#setRequestMethod
* @see java.net.HttpURLConnection#setRequestProperty
*/
protected void prepareConnection(HttpURLConnection connection, int contentLength) throws IOException {
if (this.connectTimeout \geq 0) {
```

```
connection.setConnectTimeout(this.connectTimeout);
if (this.readTimeout \geq 0) {
 connection.setReadTimeout(this.readTimeout);
connection.setDoOutput(true);
connection.setRequestMethod(HTTP METHOD POST);
connection.setRequestProperty(HTTP_HEADER_CONTENT_TYPE, getContentType());
connection.setRequestProperty(HTTP_HEADER_CONTENT_LENGTH, Integer.toString(contentLength));
LocaleContext localeContext = LocaleContextHolder.getLocaleContext();
if (localeContext != null) {
 Locale locale = localeContext.getLocale();
 if (locale != null) {
 connection.setRequestProperty(HTTP_HEADER_ACCEPT_LANGUAGE, StringUtils.toLanguageTag(locale));
 }
if (isAcceptGzipEncoding()) {
 connection.setRequestProperty(HTTP HEADER ACCEPT ENCODING, ENCODING GZIP);
}
}
/**
* Set the given serialized remote invocation as request body.
* The default implementation simply write the serialized invocation to the
* HttpURLConnection's OutputStream. This can be overridden, for example, to write
* a specific encoding and potentially set appropriate HTTP request headers.
* @param config the HTTP invoker configuration that specifies the target service
* @param con the HttpURLConnection to write the request body to
* @param baos the ByteArrayOutputStream that contains the serialized
* RemoteInvocation object
* @throws IOException if thrown by I/O methods
* @ see java.net.HttpURLConnection#getOutputStream()
* @ see java.net.HttpURLConnection#setRequestProperty
protected void writeRequestBody(
 HttpInvokerClientConfiguration config, HttpURLConnection con, ByteArrayOutputStream baos)
 throws IOException {
baos.writeTo(con.getOutputStream());
}
* Validate the given response as contained in the HttpURLConnection object,
* throwing an exception if it does not correspond to a successful HTTP response.
* Default implementation rejects any HTTP status code beyond 2xx, to avoid
* parsing the response body and trying to deserialize from a corrupted stream.
* @param config the HTTP invoker configuration that specifies the target service
```

```
* @param con the HttpURLConnection to validate
* @throws IOException if validation failed
* @see java.net.HttpURLConnection#getResponseCode()
protected void validateResponse(HttpInvokerClientConfiguration config, HttpURLConnection con)
 throws IOException {
if (con.getResponseCode() >= 300) {
 throw new IOException(
  "Did not receive successful HTTP response: status code = " + con.getResponseCode() +
  ", status message = [" + con.getResponseMessage() + "]");
}
/**
* Extract the response body from the given executed remote invocation
* The default implementation simply reads the serialized invocation
* from the HttpURLConnection's InputStream. If the response is recognized
* as GZIP response, the InputStream will get wrapped in a GZIPInputStream.
* @param config the HTTP invoker configuration that specifies the target service
* @param con the HttpURLConnection to read the response body from
* @return an InputStream for the response body
* @throws IOException if thrown by I/O methods
* @see #isGzipResponse
* @see java.util.zip.GZIPInputStream
* @see java.net.HttpURLConnection#getInputStream()
* @see java.net.HttpURLConnection#getHeaderField(int)
* @see java.net.HttpURLConnection#getHeaderFieldKey(int)
protected InputStream readResponseBody(HttpInvokerClientConfiguration config, HttpURLConnection con)
 throws IOException {
if (isGzipResponse(con)) {
 // GZIP response found - need to unzip.
 return new GZIPInputStream(con.getInputStream());
}
else {
 // Plain response found.
 return con.getInputStream();
}
}
* Determine whether the given response is a GZIP response.
* Default implementation checks whether the HTTP "Content-Encoding"
* header contains "gzip" (in any casing).
* @param con the HttpURLConnection to check
```

```
*/
protected boolean isGzipResponse(HttpURLConnection con) {
 String encodingHeader = con.getHeaderField(HTTP_HEADER_CONTENT_ENCODING);
 return (encodingHeader != null && encodingHeader.toLowerCase().contains(ENCODING_GZIP));
}
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*/
package org.springframework.remoting.httpinvoker;
import java.io.IOException;
import java.io.InputStream;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.OutputStream;
import com.sun.net.httpserver.HttpExchange;
import com.sun.net.httpserver.HttpHandler;
import org.springframework.remoting.rmi.RemoteInvocationSerializingExporter;
import org.springframework.remoting.support.RemoteInvocation;
import org.springframework.remoting.support.RemoteInvocationResult;
* HTTP request handler that exports the specified service bean as
* HTTP invoker service endpoint, accessible via an HTTP invoker proxy.
* Designed for Sun's JRE 1.6 HTTP server, implementing the
* {@link com.sun.net.httpserver.HttpHandler} interface.
* Deserializes remote invocation objects and serializes remote invocation
* result objects. Uses Java serialization just like RMI, but provides the
* same ease of setup as Caucho's HTTP-based Hessian and Burlap protocols.
```

```
* <b>HTTP invoker is the recommended protocol for Java-to-Java remoting.</b>
* It is more powerful and more extensible than Hessian and Burlap, at the
* expense of being tied to Java. Nevertheless, it is as easy to set up as
* Hessian and Burlap, which is its main advantage compared to RMI.
* @author Juergen Hoeller
* @since 2.5.1
* @see org.springframework.remoting.httpinvoker.HttpInvokerClientInterceptor
* @see org.springframework.remoting.httpinvoker.HttpInvokerProxyFactoryBean
* @see org.springframework.remoting.caucho.SimpleHessianServiceExporter
* @see org.springframework.remoting.caucho.SimpleBurlapServiceExporter
public class SimpleHttpInvokerServiceExporter extends RemoteInvocationSerializingExporter
 implements HttpHandler {
/**
 * Reads a remote invocation from the request, executes it,
 * and writes the remote invocation result to the response.
 * @see #readRemoteInvocation(com.sun.net.httpserver.HttpExchange)
 * @see #invokeAndCreateResult(org.springframework.remoting.support.RemoteInvocation, Object)
 * @see #writeRemoteInvocationResult(com.sun.net.httpserver.HttpExchange,
org.springframework.remoting.support.RemoteInvocationResult)
 */
@Override
public void handle(HttpExchange exchange) throws IOException {
 RemoteInvocation invocation = readRemoteInvocation(exchange);
 RemoteInvocationResult result = invokeAndCreateResult(invocation, getProxy());
 writeRemoteInvocationResult(exchange, result);
 exchange.close();
 }
 catch (ClassNotFoundException ex) {
 exchange.sendResponseHeaders(500, -1);
 logger.error("Class not found during deserialization", ex);
 }
}
 * Read a RemoteInvocation from the given HTTP request.
 * Delegates to
 * {@link #readRemoteInvocation(com.sun.net.httpserver.HttpExchange, java.io.InputStream)}
 * {@link com.sun.net.httpserver.HttpExchange#getRequestBody()} request's input stream}.
 * @param exchange current HTTP request/response
 * @return the RemoteInvocation object
 * @throws java.io.IOException in case of I/O failure
 * @throws ClassNotFoundException if thrown by deserialization
```

```
protected RemoteInvocation readRemoteInvocation(HttpExchange exchange)
 throws IOException, ClassNotFoundException {
return readRemoteInvocation(exchange, exchange.getRequestBody());
/**
* Deserialize a RemoteInvocation object from the given InputStream.
* Gives {@link #decorateInputStream} a chance to decorate the stream
* first (for example, for custom encryption or compression). Creates a
* {@link org.springframework.remoting.rmi.CodebaseAwareObjectInputStream}
* and calls {@link #doReadRemoteInvocation} to actually read the object.
* Can be overridden for custom serialization of the invocation.
* @param exchange current HTTP request/response
* @param is the InputStream to read from
* @return the RemoteInvocation object
* @throws java.io.IOException in case of I/O failure
* @throws ClassNotFoundException if thrown during deserialization
protected RemoteInvocation readRemoteInvocation(HttpExchange exchange, InputStream is)
 throws IOException, ClassNotFoundException {
ObjectInputStream ois = createObjectInputStream(decorateInputStream(exchange, is));
return doReadRemoteInvocation(ois);
}
/**
* Return the InputStream to use for reading remote invocations,
* potentially decorating the given original InputStream.
* The default implementation returns the given stream as-is.
* Can be overridden, for example, for custom encryption or compression.
* @param exchange current HTTP request/response
* @param is the original InputStream
* @return the potentially decorated InputStream
* @throws java.io.IOException in case of I/O failure
protected InputStream decorateInputStream(HttpExchange exchange, InputStream is) throws IOException {
return is;
* Write the given RemoteInvocationResult to the given HTTP response.
* @param exchange current HTTP request/response
* @param result the RemoteInvocationResult object
* @throws java.io.IOException in case of I/O failure
*/
protected void writeRemoteInvocationResult(HttpExchange exchange, RemoteInvocationResult result)
 throws IOException {
```

```
exchange.getResponseHeaders().set("Content-Type", getContentType());
 exchange.sendResponseHeaders(200, 0);
 writeRemoteInvocationResult(exchange, result, exchange.getResponseBody());
/**
 * Serialize the given RemoteInvocation to the given OutputStream.
 * The default implementation gives {@link #decorateOutputStream} a chance
 * to decorate the stream first (for example, for custom encryption or compression).
 * Creates an {@link java.io.ObjectOutputStream} for the final stream and calls
 * {@link #doWriteRemoteInvocationResult} to actually write the object.
 * Can be overridden for custom serialization of the invocation.
 * @param exchange current HTTP request/response
 * @param result the RemoteInvocationResult object
 * @param os the OutputStream to write to
 * @throws java.io.IOException in case of I/O failure
 * @see #decorateOutputStream
 * @see #doWriteRemoteInvocationResult
protected void writeRemoteInvocationResult(
 HttpExchange exchange, RemoteInvocationResult result, OutputStream os) throws IOException {
 ObjectOutputStream(os = createObjectOutputStream(decorateOutputStream(exchange, os));
 doWriteRemoteInvocationResult(result, oos);
 oos.flush():
/**
 * Return the OutputStream to use for writing remote invocation results,
 * potentially decorating the given original OutputStream.
 * The default implementation returns the given stream as-is.
 * Can be overridden, for example, for custom encryption or compression.
 * @param exchange current HTTP request/response
 * @param os the original OutputStream
 * @return the potentially decorated OutputStream
 * @throws java.io.IOException in case of I/O failure
protected OutputStream decorateOutputStream(HttpExchange exchange, OutputStream os) throws IOException {
 return os;
}
}
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*/
package org.springframework.remoting.caucho;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import com.sun.net.httpserver.HttpExchange;
import com.sun.net.httpserver.HttpHandler;
import org.springframework.util.FileCopyUtils;
/**
* HTTP request handler that exports the specified service bean as
* Burlap service endpoint, accessible via a Burlap proxy.
* Designed for Sun's JRE 1.6 HTTP server, implementing the
* {@link com.sun.net.httpserver.HttpHandler} interface.
* Burlap is a slim, XML-based RPC protocol.
* For information on Burlap, see the
* <a href="http://www.caucho.com/burlap">Burlap website</a>.
* This exporter requires Burlap 3.x.
* Note: Burlap services exported with this class can be accessed by
* any Burlap client, as there isn't any special handling involved.
* @author Juergen Hoeller
* @since 2.5.1
* @see org.springframework.remoting.caucho.BurlapClientInterceptor
* @see org.springframework.remoting.caucho.BurlapProxyFactoryBean
* @see SimpleHessianServiceExporter
* @see org.springframework.remoting.httpinvoker.SimpleHttpInvokerServiceExporter
* @deprecated as of Spring 4.0, since Burlap hasn't evolved in years
* and is effectively retired (in contrast to its sibling Hessian)
*/
@Deprecated
public class SimpleBurlapServiceExporter extends BurlapExporter implements HttpHandler {
/**
```

```
* Processes the incoming Burlap request and creates a Burlap response.
@Override
public void handle(HttpExchange exchange) throws IOException {
 if (!"POST".equals(exchange.getRequestMethod())) {
 exchange.getResponseHeaders().set("Allow", "POST");
 exchange.sendResponseHeaders(405, -1);
 return;
 }
 ByteArrayOutputStream output = new ByteArrayOutputStream(1024);
 invoke(exchange.getRequestBody(), output);
 catch (Throwable ex) {
 exchange.sendResponseHeaders(500, -1);
 logger.error("Burlap skeleton invocation failed", ex);
 exchange.sendResponseHeaders(200, output.size());
 FileCopyUtils.copy(output.toByteArray(), exchange.getResponseBody());
}
}
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package org.springframework.remoting.caucho;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import com.sun.net.httpserver.HttpExchange;
import com.sun.net.httpserver.HttpHandler;
```

```
/**
* HTTP request handler that exports the specified service bean as
* Hessian service endpoint, accessible via a Hessian proxy.
* Designed for Sun's JRE 1.6 HTTP server, implementing the
* {@link com.sun.net.httpserver.HttpHandler} interface.
* Hessian is a slim, binary RPC protocol.
* For information on Hessian, see the
* <a href="http://www.caucho.com/hessian">Hessian website</a>.
* <b>Note: As of Spring 4.0, this exporter requires Hessian 4.0 or above.</b>
* Hessian services exported with this class can be accessed by
* any Hessian client, as there isn't any special handling involved.
* @author Juergen Hoeller
* @since 2.5.1
* @see org.springframework.remoting.caucho.HessianClientInterceptor
* @see org.springframework.remoting.caucho.HessianProxyFactoryBean
* @ see org.springframework.remoting.httpinvoker.SimpleHttpInvokerServiceExporter
public class SimpleHessianServiceExporter extends HessianExporter implements HttpHandler {
/**
 * Processes the incoming Hessian request and creates a Hessian response.
@Override
public void handle(HttpExchange exchange) throws IOException {
 if (!"POST".equals(exchange.getRequestMethod())) {
 exchange.getResponseHeaders().set("Allow", "POST");
 exchange.sendResponseHeaders(405, -1);
 return;
 }
 ByteArrayOutputStream output = new ByteArrayOutputStream(1024);
 try {
 invoke(exchange.getRequestBody(), output);
 catch (Throwable ex) {
 exchange.sendResponseHeaders(500, -1);
 logger.error("Hessian skeleton invocation failed", ex);
 return;
 }
 exchange.getResponseHeaders().set("Content-Type", CONTENT_TYPE_HESSIAN);
 exchange.sendResponseHeaders(200, output.size());
 FileCopyUtils.copy(output.toByteArray(), exchange.getResponseBody());
```

```
}
}
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package org.springframework.remoting.jaxws;
import java.net.InetSocketAddress;
import java.util.List;
import javax.jws.WebService;
import javax.xml.ws.Endpoint;
import javax.xml.ws.WebServiceProvider;
import com.sun.net.httpserver.Authenticator;
import com.sun.net.httpserver.Filter;
import com.sun.net.httpserver.HttpContext;
import com.sun.net.httpserver.HttpServer;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
* Simple exporter for JAX-WS services, autodetecting annotated service beans
* (through the JAX-WS {@link javax.jws.WebService} annotation) and exporting
* them through the HTTP server included in Sun's JDK 1.6. The full address
* for each service will consist of the server's base address with the
* service name appended (e.g. "http://localhost:8080/OrderService").
* Note that this exporter will only work on Sun's JDK 1.6 or higher, as well
* as on JDKs that ship Sun's entire class library as included in the Sun JDK.
* For a portable JAX-WS exporter, have a look at {@link SimpleJaxWsServiceExporter}.
* @author Juergen Hoeller
* @since 2.5.5
* @see javax.jws.WebService
```

```
* @see javax.xml.ws.Endpoint#publish(Object)
* @see SimpleJaxWsServiceExporter
public class SimpleHttpServerJaxWsServiceExporter extends AbstractJaxWsServiceExporter {
protected final Log logger = LogFactory.getLog(getClass());
private HttpServer server;
private int port = 8080;
private String hostname;
private int backlog = -1;
private int shutdownDelay = 0;
private String basePath = "/";
private List<Filter> filters;
private Authenticator authenticator;
private boolean localServer = false;
/**
 * Specify an existing HTTP server to register the web service contexts
 * with. This will typically be a server managed by the general Spring
 * {@link org.springframework.remoting.support.SimpleHttpServerFactoryBean}.
 * Alternatively, configure a local HTTP server through the
 * {@link #setPort "port"}, {@link #setHostname "hostname"} and
 * {@link #setBacklog "backlog"} properties (or rely on the defaults there).
 */
public void setServer(HttpServer server) {
 this.server = server;
}
/**
 * Specify the HTTP server's port. Default is 8080.
 * Only applicable for a locally configured HTTP server.
 * Ignored when the {@link #setServer "server"} property has been specified.
 */
public void setPort(int port) {
 this.port = port;
/**
```

```
* Specify the HTTP server's hostname to bind to. Default is localhost;
* can be overridden with a specific network address to bind to.
* Only applicable for a locally configured HTTP server.
* Ignored when the {@link #setServer "server"} property has been specified.
public void setHostname(String hostname) {
this.hostname = hostname;
/**
* Specify the HTTP server's TCP backlog. Default is -1,
* indicating the system's default value.
* Only applicable for a locally configured HTTP server.
* Ignored when the {@link #setServer "server"} property has been specified.
public void setBacklog(int backlog) {
this.backlog = backlog;
/**
* Specify the number of seconds to wait until HTTP exchanges have
* completed when shutting down the HTTP server. Default is 0.
* Only applicable for a locally configured HTTP server.
* Ignored when the {@link #setServer "server"} property has been specified.
public void setShutdownDelay(int shutdownDelay) {
this.shutdownDelay = shutdownDelay;
}
/**
* Set the base path for context publication. Default is "/".
* For each context publication path, the service name will be
* appended to this base address. E.g. service name "OrderService"
* -> "/OrderService".
* @see javax.xml.ws.Endpoint#publish(Object)
* @see javax.jws.WebService#serviceName()
*/
public void setBasePath(String basePath) {
this.basePath = basePath;
}
* Register common {@link com.sun.net.httpserver.Filter Filters} to be
* applied to all detected {@link javax.jws.WebService} annotated beans.
public void setFilters(List<Filter> filters) {
this.filters = filters;
```

```
/**
* Register a common {@link com.sun.net.httpserver.Authenticator} to be
* applied to all detected {@link javax.jws.WebService} annotated beans.
public void setAuthenticator(Authenticator authenticator) {
this.authenticator = authenticator;
@Override
public void afterPropertiesSet() throws Exception {
if (this.server == null) {
 InetSocketAddress address = (this.hostname != null ?
  new InetSocketAddress(this.hostname, this.port) : new InetSocketAddress(this.port));
 this.server = HttpServer.create(address, this.backlog);
 if (this.logger.isInfoEnabled()) {
 this.logger.info("Starting HttpServer at address" + address);
 }
 this.server.start();
 this.localServer = true;
}
super.after Properties Set();\\
@Override
protected void publishEndpoint(Endpoint endpoint, WebService annotation) {
endpoint.publish(buildHttpContext(endpoint, annotation.serviceName()));
}
@Override
protected void publishEndpoint(Endpoint endpoint, WebServiceProvider annotation) {
endpoint.publish(buildHttpContext(endpoint, annotation.serviceName()));
}
* Build the HttpContext for the given endpoint.
* @param endpoint the JAX-WS Provider Endpoint object
* @param serviceName the given service name
* @return the fully populated HttpContext
protected HttpContext buildHttpContext(Endpoint endpoint, String serviceName) {
String fullPath = calculateEndpointPath(endpoint, serviceName);
HttpContext httpContext = this.server.createContext(fullPath);
if (this.filters != null) {
 httpContext.getFilters().addAll(this.filters);
}
if (this.authenticator != null) {
```

```
httpContext.setAuthenticator(this.authenticator);
 }
 return httpContext;
}
/**
 * Calculate the full endpoint path for the given endpoint.
 * @param endpoint the JAX-WS Provider Endpoint object
 * @param serviceName the given service name
 * @return the full endpoint path
protected String calculateEndpointPath(Endpoint endpoint, String serviceName) {
 return this.basePath + serviceName:
}
@Override
public void destroy() {
 super.destroy();
 if (this.localServer) {
 logger.info("Stopping HttpServer");
 this.server.stop(this.shutdownDelay);
 }
}
}
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*/
package org.springframework.remoting.jaxws;
import javax.jws.WebService;
import javax.xml.ws.Endpoint;
import javax.xml.ws.WebServiceProvider;
```

```
* Simple exporter for JAX-WS services, autodetecting annotated service beans
* (through the JAX-WS {@link javax.jws.WebService} annotation) and exporting
* them with a configured base address (by default "http://localhost:8080/")
* using the JAX-WS provider's built-in publication support. The full address
* for each service will consist of the base address with the service name
* appended (e.g. "http://localhost:8080/OrderService").
* Note that this exporter will only work if the JAX-WS runtime actually
* supports publishing with an address argument, i.e. if the JAX-WS runtime
* ships an internal HTTP server. This is the case with the JAX-WS runtime
* that's inclued in Sun's JDK 1.6 but not with the standalone JAX-WS 2.1 RI.
* For explicit configuration of JAX-WS endpoints with Sun's JDK 1.6
* HTTP server, consider using {@link SimpleHttpServerJaxWsServiceExporter}!
* @author Juergen Hoeller
* @since 2.5
* @see javax.jws.WebService
* @see javax.xml.ws.Endpoint#publish(String)
* @see SimpleHttpServerJaxWsServiceExporter
public class SimpleJaxWsServiceExporter extends AbstractJaxWsServiceExporter {
public static final String DEFAULT_BASE_ADDRESS = "http://localhost:8080/";
private String baseAddress = DEFAULT BASE ADDRESS;
/**
 * Set the base address for exported services.
 * Default is "http://localhost:8080/".
 * For each actual publication address, the service name will be
 * appended to this base address. E.g. service name "OrderService"
 * -> "http://localhost:8080/OrderService".
 * @see javax.xml.ws.Endpoint#publish(String)
 * @see javax.jws.WebService#serviceName()
public void setBaseAddress(String baseAddress) {
 this.baseAddress = baseAddress;
}
@Override
protected void publishEndpoint(Endpoint endpoint, WebService annotation) {
 endpoint.publish (calculate Endpoint Address (endpoint, annotation.service Name ()));\\
```

}

```
@Override
protected void publishEndpoint(Endpoint endpoint, WebServiceProvider annotation) {
  endpoint.publish(calculateEndpointAddress(endpoint, annotation.serviceName()));
}

/**

* Calculate the full endpoint address for the given endpoint.

* @param endpoint the JAX-WS Provider Endpoint object

* @param serviceName the given service name

* @return the full endpoint address

*/
protected String calculateEndpointAddress(Endpoint endpoint, String serviceName) {
  String fullAddress = this.baseAddress + serviceName;
  if (endpoint.getClass().getName().startsWith("weblogic.")) {
    // Workaround for WebLogic 10.3
    fullAddress = fullAddress + "/";
  }
  return fullAddress;
}
```

# 1.109 spring-web 4.2.3.RELEASE

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## 1.110 Xalan 2.7.1

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Source: http://jakarta.apache.org/bcel

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Used By: XSLTC component of xml-xalan/java

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Source: http://jakarta.apache.org/regexp

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