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# Package javax.servlet

The javax.servlet package contains a number of classes and interfaces that describe and define the contracts between a servlet class and the runtime environment provided for an instance of such a class by a conforming servlet container.

See:

**Description** 

| Interface Summary  |  |  |
|--|--|--|
| <u>AsyncContext</u>  | Class representing the execution context for an asynchronous operation that was initiated on a ServletRequest.   |  |
| <u>AsyncListener</u>   | Listener that will be notified in the event that an asynchronous operation initiated on a ServletRequest to which the listener had been added has completed, timed out, or resulted in an error. |  |
| <u>Filter</u>  | A filter is an object that performs filtering tasks on either the reque<br>to a resource (a servlet or static content), or on the response from a<br>resource, or both.                          |  |
| <u>FilterChain</u>   | A FilterChain is an object provided by the servlet container to the developer giving a view into the invocation chain of a filtered request for a resource.                                      |  |
| FilterConfig  A filter configuration object used by a servlet container to p information to a filter during initialization.  |  |  |
| <b>FilterRegistration</b>  | Interface through which a Filter may be further configured.  |  |
| FilterRegistration.Dynamic  Interface through which a Filter registered via one of the addFilter methods on ServletContext may be further context.   |  |  |
| Registration   | Interface through which a Servlet or Filter may be further configured.   |  |
| Registration.Dynamic  Registration.Dynamic  Interface through which a Servlet or Filter registered via the addServlet or addFilter methods, respectively, on ServletContext may be further configured. |  |  |
| Defines an object that receives requests from the client and s them to any resource (such as a servlet, HTML file, or JSP fithe server.  |  |  |
| Servlet  | Defines methods that all servlets must implement.  |  |
| ServletConfig  | A servlet configuration object used by a servlet container to pass information to a servlet during initialization.   |  |
| Interface which allows a library/runtime to be notified of a w application's startup phase and perform any required program registration of servlets, filters, and listeners in response to it.        |  |  |

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| ServletContext  | Defines a set of methods that a servlet uses to communicate with its servlet container, for example, to get the MIME type of a file, dispatch requests, or write to a log file. |  |
|---|---|--|
| <u>ServletContextAttributeListener</u>  | Interface for receiving notification events about ServletContext attribute changes.   |  |
| <u>ServletContextListener</u>   | Interface for receiving notification events about ServletContext lifecycle changes.   |  |
| ServletRegistration Interface through which a Servlet may be further configured   |   |  |
| ServletRegistration.Dynamic   | Interface through which a Servlet registered via one of the addServlet methods on ServletContext may be further configured.   |  |
| ServletRequest Defines an object to provide client request information to a   |   |  |
| <u>ServletRequestAttributeListener</u>  | Interface for receiving notification events about ServletRequest attribute changes.   |  |
| ServletRequestListener Interface for receiving notification events about requests con into and going out of scope of a web application. |   |  |
| <u>ServletResponse</u>  | Defines an object to assist a servlet in sending a response to the client.  |  |
| <u>SessionCookieConfig</u>  | Class that may be used to configure various properties of cookies used for session tracking purposes.   |  |
| SingleThreadModel Deprecated. As of Java Servlet API 2.4, with no direct replace  |   |  |

| Class Summary  |   |  |
|--|---|--|
| <u>AsyncEvent</u>  | Event that gets fired when the asynchronous operation initiated on a ServletRequest (via a call to ServletRequest#startAsync or ServletRequest#startAsync(ServletRequest, ServletResponse)) has completed, timed out, or produced an error. |  |
| <u>GenericServlet</u>  | Defines a generic, protocol-independent servlet.  |  |
| <b>HttpConstraintElement</b>   | Java Class representation of an HttpConstraint annotation value.  |  |
| IttpMethodConstraintElement Value.  Java Class representation of an httpMethodConstraint annotation value.                         |   |  |
| MultipartConfigElement Java Class representation of an MultipartConfig annotation  |   |  |
| <u>ServletContextAttributeEvent</u>  | Event class for notifications about changes to the attributes of the ServletContext of a web application.   |  |
| <u>ServletContextEvent</u>   | This is the event class for notifications about changes to the servlet context of a web application.  |  |
| Provides an input stream for reading binary data from a client including an efficient readLine method for reading data one litime. |   |  |
| <u>ServletOutputStream</u>   | Provides an output stream for sending binary data to the client.  |  |
| <u>ServletRequestAttributeEvent</u>  | This is the event class for notifications of changes to the attributes of the servlet request in an application.  |  |

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| <u>ServletRequestEvent</u>    | Events of this kind indicate lifecycle events for a ServletRequest.  |  |
|-------------------------------|--|--|
| <u>ServletRequestWrapper</u>  | Provides a convenient implementation of the ServletRequest interface that can be subclassed by developers wishing to adapt the request to a Servlet.     |  |
| <u>ServletResponseWrapper</u> | Provides a convenient implementation of the ServletResponse interface that can be subclassed by developers wishing to adapt the response from a Servlet. |  |
| <b>ServletSecurityElement</b> | Java Class represntation of a ServletSecurity annotation value.  |  |

| Enum Summary   |   |
|--|---|
| <b>DispatcherType</b>                                      | Enumeration of filter dispatcher types. |
| SessionTrackingMode Enumeration of session tracking modes. |   |

| Exception Summary        |   |
|--------------------------|---|
| <b>ServletException</b>  | Defines a general exception a servlet can throw when it encounters difficulty.                                      |
| II Ingwallaniah veantian | Defines an exception that a servlet or filter throws to indicate that it is permanently or temporarily unavailable. |

# Package javax.servlet Description

The javax.servlet package contains a number of classes and interfaces that describe and define the contracts between a servlet class and the runtime environment provided for an instance of such a class by a conforming servlet container.

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## javax.servlet

# **Interface AsyncContext**

public interface AsyncContext

Class representing the execution context for an asynchronous operation that was initiated on a ServletRequest.

An AsyncContext is created and initialized by a call to ServletRequest#startAsync() or ServletRequest#startAsync(ServletRequest, ServletResponse). Repeated invocations of these methods will return the same AsyncContext instance, reinitialized as appropriate.

In the event that an asynchronous operation has timed out, the container must run through these steps:

- 1. Invoke, at their onTimeout method, all AsyncListener instances registered with the ServletRequest on which the asynchronous operation was initiated.
- 2. If none of the listeners called <u>complete()</u> or any of the <u>dispatch()</u> methods, perform an error dispatch with a status code equal to HttpServletResponse.SC\_INTERNAL\_SERVER\_ERROR.
- 3. If no matching error page was found, or the error page did not call complete() or any of the dispatch() methods, call complete().

#### Since:

Servlet 3.0

| Field Summary           |  |  |
|-------------------------|--|--|
| static java.lang.String | The name of the request attribute under which the original context path is made available to the target of a <a href="mailto:dispatch(String)">dispatch(ServletContext,String)</a>   |  |
| static java.lang.String | The name of the request attribute under which the original path info is made available to the target of a <a href="mailto:dispatch(String">dispatch(String)</a> or <a href="mailto:dispatch(ServletContext,String">dispatch(ServletContext,String)</a>           |  |
| static java.lang.String | ASYNC_QUERY_STRING  The name of the request attribute under which the original query string is made available to the target of a <a href="mailto:dispatch(String)">dispatch(String)</a> or <a href="mailto:dispatch(String)">dispatch(ServletContext,String)</a> |  |
| static java.lang.String | The name of the request attribute under which the original request URI is made available to the target of a <a href="mailto:dispatch(String)">dispatch(ServletContext, String)</a>   |  |
| static java.lang.String | ASYNC_SERVLET_PATH  The name of the request attribute under which the original servlet path is made available to the target of a <a href="mailto:dispatch(String)">dispatch(String)</a> or <a href="mailto:dispatch(String)">dispatch(ServletContext,String)</a> |  |

| <b>Method Summary</b>  | Method Summary   |  |  |
|--|--|--|--|
| void   | AsyncListener listener Registers the given AsyncListener with the most recent asynchronous cycle that was started by a call to one of the ServletRequest#startAsync methods.                   |  |  |
| void addListener (AsyncListener listener, ServletRequest servletRequest, ServletResponse servletResponse)  Registers the given AsyncListener with the most recent asynchronous cycle that was started by a call to one of the ServletRequest#startAsync methods. |  |  |  |
| void   | Completes the asynchronous operation that was started on the request that was used to initialze this AsyncContext, closing the response that was used to initialize this AsyncContext.         |  |  |
| <t <u="" extends="">AsyncListener&gt;</t>  | <u>createListener</u> (java.lang.Class <t> clazz)  Instantiates the given AsyncListener class.</t>   |  |  |
| void   | Dispatches the request and response objects of this AsyncContext to the servlet container.   |  |  |
| void   | dispatch (ServletContext context, java.lang.String path)  Dispatches the request and response objects of this AsyncContext to the given path scoped to the given context.                      |  |  |
| void   | dispatch (java.lang.String path)  Dispatches the request and response objects of this AsyncContext to the given path.  |  |  |
| ServletRequest   | Gets the request that was used to initialize this AsyncContext by calling ServletRequest#startAsync() or ServletRequest#startAsync(ServletRequest, ServletResponse).                           |  |  |
| ServletResponse  | <pre>GetResponse() Gets the response that was used to initialize this AsyncContext by calling ServletRequest#startAsync() or ServletRequest#startAsync(ServletRequest, ServletResponse).</pre> |  |  |
| long   | Gets the timeout (in milliseconds) for this AsyncContext.  |  |  |
| boolean  | hasOriginalRequestAndResponse() Checks if this AsyncContext was initialized with the original or application-wrapped request and response objects.   |  |  |
| void   | Sets the timeout (in milliseconds) for this AsyncContext.  |  |  |
| void   | Start (java.lang.Runnable run)  Causes the container to dispatch a thread, possibly from a managed thread pool, to run the specified Runnable.   |  |  |

# Field Detail

# ASYNC\_REQUEST\_URI

static final java.lang.String ASYNC\_REQUEST\_URI

The name of the request attribute under which the original request URI is made available to the target of a <a href="mailto:dispatch(String">dispatch(String)</a> or <a href="mailto:dispatch(String">dispatch(String)</a>)

## See Also:

**Constant Field Values** 

# ASYNC\_CONTEXT\_PATH

static final java.lang.String ASYNC\_CONTEXT\_PATH

The name of the request attribute under which the original context path is made available to the target of a dispatch(String) or dispatch(ServletContext, String)

#### See Also:

**Constant Field Values** 

# ASYNC\_PATH\_INFO

static final java.lang.String ASYNC\_PATH\_INFO

The name of the request attribute under which the original path info is made available to the target of a dispatch(String) or dispatch(ServletContext, String)

## See Also:

**Constant Field Values** 

# ASYNC\_SERVLET\_PATH

static final java.lang.String ASYNC\_SERVLET\_PATH

The name of the request attribute under which the original servlet path is made available to the target of a dispatch(String) or dispatch(ServletContext,String)

#### See Also:

**Constant Field Values** 

# ASYNC\_QUERY\_STRING

static final java.lang.String ASYNC\_QUERY\_STRING

The name of the request attribute under which the original query string is made available to the target of a dispatch(String) or dispatch(ServletContext,String)

## See Also:

**Constant Field Values** 

# **Method Detail**

# getRequest

```
ServletRequest getRequest()
```

Gets the request that was used to initialize this AsyncContext by calling

 $Servlet Request \# start A sync() \ Or \ Servlet Request \# start A sync(Servlet Request, Servlet Response).$ 

#### **Returns:**

the request that was used to initialize this AsyncContext

# getResponse

```
ServletResponse getResponse()
```

Gets the response that was used to initialize this AsyncContext by calling

 $Servlet Request \# start A sync() \ Or \ Servlet Request \# start A sync(Servlet Request, Servlet Response).$ 

#### **Returns:**

the response that was used to initialize this AsyncContext

# has Original Request And Response

```
boolean hasOriginalRequestAndResponse()
```

Checks if this AsyncContext was initialized with the original or application-wrapped request and response objects.

This information may be used by filters invoked in the *outbound* direction, after a request was put into asynchronous mode, to determine whether any request and/or response wrappers that they added during their *inbound* invocation need to be preserved for the duration of the asynchronous operation, or may be released.

#### **Returns:**

true if this AsyncContext was initialized with the original request and response objects by calling ServletRequest#startAsync(), or if it was initialized by calling ServletRequest#startAsync(ServletRequest, ServletResponse), and neither the ServletRequest nor ServletResponse arguments carried any application-provided wrappers; false otherwise

# dispatch

```
void dispatch()
```

Dispatches the request and response objects of this AsyncContext to the servlet container.

If the asynchronous cycle was started with ServletRequest#startAsync(ServletRequest,

ServletResponse), and the request passed is an instance of HttpServletRequest, then the dispatch is to the URI returned by <a href="httpServletRequest.getRequestURI(">httpServletRequest.getRequestURI(")</a>. Otherwise, the dispatch is to the URI of the request when it was last dispatched by the container.

The following sequence illustrates how this will work:

```
// REQUEST dispatch to /url/A
AsyncContext ac = request.startAsync();
...
ac.dispatch(); // ASYNC dispatch to /url/A

// FORWARD dispatch to /url/B
getRequestDispatcher("/url/B").forward(request,response);
// Start async operation from within the target of the FORWARD
// dispatch
ac = request.startAsync();
...
ac.dispatch(); // ASYNC dispatch to /url/A

// FORWARD dispatch to /url/B
getRequestDispatcher("/url/B").forward(request,response);
// Start async operation from within the target of the FORWARD
// dispatch
ac = request.startAsync(request,response);
...
ac.dispatch(); // ASYNC dispatch to /url/B
```

This method returns immediately after passing the request and response objects to a container managed thread, on which the dispatch operation will be performed. If this method is called before the container-initiated dispatch that called startAsync has returned to the container, the dispatch operation will be delayed until after the container-initiated dispatch has returned to the container.

The dispatcher type of the request is set to DispatcherType. ASYNC. Unlike forward dispatches, the response buffer and headers will not be reset, and it is legal to dispatch even if the response has already been committed.

Control over the request and response is delegated to the dispatch target, and the response will be closed when the dispatch target has completed execution, unless ServletRequest#startAsync() or ServletRequest#startAsync(ServletRequest, ServletResponse) are called.

Any errors or exceptions that may occur during the execution of this method must be caught and handled by the container, as follows:

- 1. Invoke, at their onError method, all AsyncListener instances registered with the ServletRequest for which this AsyncContext was created, and make the caught Throwable available via AsyncEvent#getThrowable.
- 2. If none of the listeners called complete() or any of the dispatch() methods, perform an error dispatch with a status code equal to

  HttpServletResponse.SC\_INTERNAL\_SERVER\_ERROR, and make the above Throwable available as the value of the RequestDispatcher.ERROR\_EXCEPTION request attribute.
- 3. If no matching error page was found, or the error page did not call complete() or any of the dispatch() methods, call complete().

There can be at most one asynchronous dispatch operation per asynchronous cycle, which is started by a call to one of the ServletRequest#startAsync methods. Any attempt to perform an additional asynchronous dispatch operation within the same asynchronous cycle will result in an

IllegalStateException. If startAsync is subsequently called on the dispatched request, then any of the dispatch or complete() methods may be called.

#### **Throws:**

IllegalStateException - if one of the dispatch methods has been called and the startAsync method has not been called during the resulting dispatch, or if complete() was called

#### See Also:

ServletRequest#getDispatcherType

# dispatch

```
void dispatch(java.lang.String path)
```

Dispatches the request and response objects of this AsyncContext to the given path.

The path parameter is interpreted in the same way as in ServletRequest#getRequestDispatcher(String), within the scope of the ServletContext from which this AsyncContext was initialized.

All path related query methods of the request must reflect the dispatch target, while the original request URI, context path, path info, servlet path, and query string may be recovered from the <a href="mailto:ASYNC\_REQUEST\_URI">ASYNC\_CONTEXT\_PATH</a>, ASYNC\_PATH\_INFO, ASYNC\_SERVLET\_PATH, and <a href="mailto:ASYNC\_QUERY\_STRING">ASYNC\_STRING</a> attributes of the request. These attributes will always reflect the original path elements, even under repeated dispatches.

There can be at most one asynchronous dispatch operation per asynchronous cycle, which is started by a call to one of the ServletRequest#startAsync methods. Any attempt to perform an additional asynchronous dispatch operation within the same asynchronous cycle will result in an IllegalStateException. If startAsync is subsequently called on the dispatched request, then any of the dispatch or complete() methods may be called.

See <a href="mailto:dispatch()">dispatch()</a> for additional details, including error handling.

#### **Parameters:**

path - the path of the dispatch target, scoped to the ServletContext from which this AsyncContext was initialized

#### **Throws:**

IllegalStateException - if one of the dispatch methods has been called and the startAsync method has not been called during the resulting dispatch, or if complete() was called

#### See Also:

ServletRequest#getDispatcherType

# dispatch

Dispatches the request and response objects of this AsyncContext to the given path scoped to the given context.

The path parameter is interpreted in the same way as in

ServletRequest#getRequestDispatcher(String), except that it is scoped to the given context.

All path related query methods of the request must reflect the dispatch target, while the original request URI, context path, path info, servlet path, and query string may be recovered from the <a href="ASYNC\_REQUEST\_URI">ASYNC\_CONTEXT\_PATH</a>, ASYNC\_PATH\_INFO, ASYNC\_SERVLET\_PATH, and <a href="ASYNC\_QUERY\_STRING">ASYNC\_STRING</a> attributes of the request. These attributes will always reflect the original path elements, even under repeated dispatches.

There can be at most one asynchronous dispatch operation per asynchronous cycle, which is started by a call to one of the ServletRequest#startAsync methods. Any attempt to perform an additional asynchronous dispatch operation within the same asynchronous cycle will result in an IllegalStateException. If startAsync is subsequently called on the dispatched request, then any of the dispatch or complete() methods may be called.

See <a href="mailto:dispatch">dispatch()</a> for additional details, including error handling.

## **Parameters:**

context - the ServletContext of the dispatch target
path - the path of the dispatch target, scoped to the given ServletContext

# **Throws:**

 ${\tt IllegalStateException - if one of the dispatch methods has been called and the startAsync method has not been called during the resulting dispatch, or if {\tt complete()} was called during the resulting dispatch, and {\tt complete()} was called the startAsync method has not been called during the resulting dispatch, and {\tt complete()} was called the startAsync method has not been called during the resulting dispatch, and {\tt complete()} was called the startAsync method has not been called during the resulting dispatch, and {\tt complete()} was called the startAsync method has not been called during the resulting dispatch, and {\tt complete()} was called the startAsync method has not been called during the resulting dispatch, and {\tt complete()} was called the startAsync method has not been called during the resulting dispatch, and {\tt complete()} was called the startAsync method has not been called during the resulting dispatch.}$ 

#### See Also:

ServletRequest#getDispatcherType

# complete

```
void complete()
```

Completes the asynchronous operation that was started on the request that was used to initialze this AsyncContext, closing the response that was used to initialize this AsyncContext.

Any listeners of type AsyncListener that were registered with the ServletRequest for which this AsyncContext was created will be invoked at their onComplete method.

It is legal to call this method any time after a call to ServletRequest#startAsync() or ServletRequest#startAsync(ServletRequest, ServletResponse), and before a call to one of the dispatch methods of this class. If this method is called before the container-initiated dispatch that called startAsync has returned to the container, then the call will not take effect (and any invocations of AsyncListener#onComplete(AsyncEvent) will be delayed) until after the container-initiated dispatch has returned to the container.

#### start

```
void start(java.lang.Runnable run)
```

Causes the container to dispatch a thread, possibly from a managed thread pool, to run the specified Runnable. The container may propagate appropriate contextual information to the Runnable.

#### **Parameters:**

run - the asynchronous handler

## addListener

```
void addListener(AsyncListener listener)
```

Registers the given AsyncListener with the most recent asynchronous cycle that was started by a call to one of the ServletRequest#startAsync methods.

The given AsyncListener will receive an AsyncEvent when the asynchronous cycle completes successfully, times out, or results in an error.

AsyncListener instances will be notified in the order in which they were added.

#### **Parameters:**

listener - the AsyncListener to be registered

#### **Throws:**

IllegalStateException - if this method is called after the container-initiated dispatch, during which one of the ServletRequest#startAsync methods was called, has returned to the container

## addListener

Registers the given AsyncListener with the most recent asynchronous cycle that was started by a call to one of the ServletRequest#startAsync methods.

The given AsyncListener will receive an AsyncEvent when the asynchronous cycle completes successfully, times out, or results in an error.

AsyncListener instances will be notified in the order in which they were added.

The given ServletRequest and ServletResponse objects will be made available to the given AsyncListener via the <code>getSuppliedRequest</code> and <code>getSuppliedResponse</code> methods, respectively, of the <code>AsyncEvent</code> delivered to it. These objects should not be read from or written to, respectively, at the time the AsyncEvent is delivered, because additional wrapping may have occurred since the given AsyncListener was registered, but may be used in order to release any resources associated with them.

## **Parameters:**

```
listener - the AsyncListener to be registered
servletRequest - the ServletRequest that will be included in the AsyncEvent
servletResponse - the ServletResponse that will be included in the AsyncEvent
```

# **Throws:**

IllegalStateException - if this method is called after the container-initiated dispatch, during which one of the ServletRequest#startAsync methods was called, has returned to the container

## createListener

Instantiates the given AsyncListener class.

The returned AsyncListener instance may be further customized before it is registered with this AsyncContext via a call to one of the addListener methods.

The given AsyncListener class must define a zero argument constructor, which is used to instantiate it.

This method supports resource injection if the given clazz represents a Managed Bean. See the Java EE platform and JSR 299 specifications for additional details about Managed Beans and resource injection.

This method supports any annotations applicable to AsyncListener.

#### **Parameters:**

clazz - the AsyncListener class to instantiate

#### **Returns:**

the new AsyncListener instance

#### **Throws:**

ServletException - if the given clazz fails to be instantiated

## setTimeout

```
void setTimeout(long timeout)
```

Sets the timeout (in milliseconds) for this AsyncContext.

The timeout applies to this AsyncContext once the container-initiated dispatch during which one of the ServletRequest#startAsync methods was called has returned to the container.

The timeout will expire if neither the <u>complete()</u> method nor any of the dispatch methods are called. A timeout value of zero or less indicates no timeout.

If <u>setTimeout(long)</u> is not called, then the container's default timeout, which is available via a call to <u>getTimeout()</u>, will apply.

#### **Parameters:**

timeout - the timeout in milliseconds

#### **Throws:**

IllegalStateException - if this method is called after the container-initiated dispatch, during which one of the ServletRequest#startAsync methods was called, has returned to the container

# getTimeout

```
long getTimeout()
```

Gets the timeout (in milliseconds) for this AsyncContext.

AsyncContext (Java EE 6)

This method returns the container's default timeout for asynchronous operations, or the timeout value passed to the most recent invocation of setTimeout(long).

A timeout value of zero or less indicates no timeout.

#### **Returns:**

the timeout in milliseconds

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## javax.servlet

# Class AsyncEvent

java.lang.Object

└ javax.servlet.AsyncEvent

public class AsyncEvent
extends java.lang.Object

Event that gets fired when the asynchronous operation initiated on a ServletRequest (via a call to ServletRequest#startAsync Or ServletRequest#startAsync(ServletRequest, ServletResponse)) has completed, timed out, or produced an error.

#### Since:

Servlet 3.0

# **Constructor Summary**

AsyncEvent(AsyncContext context)

Constructs an AsyncEvent from the given AsyncContext.

AsyncEvent (AsyncContext context, ServletRequest request, ServletResponse response)

Constructs an AsyncEvent from the given AsyncContext, ServletRequest, and ServletResponse.

 $\frac{\textbf{AsyncEvent}}{\textbf{AsyncContext context}}, \ \underline{\textbf{ServletRequest}} \ \ \textbf{request}, \ \underline{\textbf{ServletResponse}} \ \ \textbf{response}, \\ \textbf{java.lang.Throwable throwable})$ 

Constructs an AsyncEvent from the given AsyncContext, ServletRequest, ServletResponse, and Throwable.

 $\underline{\textbf{AsyncEvent}}(\underline{\textbf{AsyncContext}} \text{ context, java.lang.Throwable throwable})$ 

Constructs an AsyncEvent from the given AsyncContext and Throwable.

# Method Summary | AsyncContext | getAsyncContext() | Gets the AsyncContext from this AsyncEvent. | ServletRequest | getSuppliedRequest() | Gets the ServletRequest from this AsyncEvent. | ServletResponse | getSuppliedResponse() | Gets the ServletResponse from this AsyncEvent. | java.lang.Throwable | GetSuppliedResponse from this AsyncEvent. | GetSuppliedResponse from this AsyncEvent.

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

# **Constructor Detail**

# **AsyncEvent**

public AsyncEvent(AsyncContext context)

Constructs an AsyncEvent from the given AsyncContext.

#### **Parameters:**

context - the AsyncContex to be delivered with this AsyncEvent

# **AsyncEvent**

Constructs an AsyncEvent from the given AsyncContext, ServletRequest, and ServletResponse.

#### **Parameters:**

```
context - the AsyncContex to be delivered with this AsyncEvent request - the ServletRequest to be delivered with this AsyncEvent response - the ServletResponse to be delivered with this AsyncEvent
```

# **AsyncEvent**

Constructs an AsyncEvent from the given AsyncContext and Throwable.

#### **Parameters:**

context - the AsyncContex to be delivered with this AsyncEvent throwable - the Throwable to be delivered with this AsyncEvent

# **AsyncEvent**

Constructs an AsyncEvent from the given AsyncContext, ServletRequest, ServletResponse, and Throwable.

#### **Parameters:**

```
context - the AsyncContex to be delivered with this AsyncEvent request - the ServletRequest to be delivered with this AsyncEvent response - the ServletResponse to be delivered with this AsyncEvent throwable - the Throwable to be delivered with this AsyncEvent
```

# **Method Detail**

# getAsyncContext

```
public AsyncContext getAsyncContext()
```

Gets the AsyncContext from this AsyncEvent.

#### **Returns:**

the AsyncContext that was used to initialize this AsyncEvent

# getSuppliedRequest

```
public ServletRequest getSuppliedRequest()
```

Gets the ServletRequest from this AsyncEvent.

If the AsyncListener to which this AsyncEvent is being delivered was added using AsyncContext#addListener(AsyncListener, ServletRequest, ServletResponse), the returned ServletRequest will be the same as the one supplied to the above method. If the AsyncListener was added via AsyncContext#addListener(AsyncListener), this method must return null.

#### **Returns:**

the ServletRequest that was used to initialize this AsyncEvent, or null if this AsyncEvent was initialized without any ServletRequest

# getSuppliedResponse

```
public ServletResponse getSuppliedResponse()
```

Gets the ServletResponse from this AsyncEvent.

If the AsyncListener to which this AsyncEvent is being delivered was added using AsyncContext#addListener(AsyncListener, ServletRequest, ServletResponse), the returned ServletResponse will be the same as the one supplied to the above method. If the AsyncListener was added via AsyncContext#addListener(AsyncListener), this method must return null.

#### **Returns:**

the ServletResponse that was used to initialize this AsyncEvent, or null if this AsyncEvent was initialized without any ServletResponse

# getThrowable

```
public java.lang.Throwable getThrowable()
```

Gets the Throwable from this AsyncEvent.

#### **Returns:**

AsyncEvent (Java EE 6)

the Throwable that was used to initialize this AsyncEvent, or null if this AsyncEvent was initialized without any Throwable

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javax.servlet

# **Interface AsyncListener**

# **All Superinterfaces:**

java.util.EventListener

```
public interface AsyncListener
extends java.util.EventListener
```

Listener that will be notified in the event that an asynchronous operation initiated on a ServletRequest to which the listener had been added has completed, timed out, or resulted in an error.

#### Since:

Servlet 3.0

| Met  | Method Summary  |  |  |
|------|---|--|--|
| void | OnComplete (AsyncEvent event)  Notifies this AsyncListener that an asynchronous operation has been completed.   |  |  |
| void | OnError (AsyncEvent event) Notifies this AsyncListener that an asynchronous operation has failed to complete.   |  |  |
| void | OnStartAsync (AsyncEvent event)  Notifies this AsyncListener that a new asynchronous cycle is being initiated via a call to one of the ServletRequest#startAsync methods. |  |  |
| void | OnTimeout (AsyncEvent event)  Notifies this AsyncListener that an asynchronous operation has timed out.   |  |  |

# **Method Detail**

# onComplete

Notifies this AsyncListener that an asynchronous operation has been completed.

The AsyncContext corresponding to the asynchronous operation that has been completed may be obtained by calling getAsyncContext on the given event.

In addition, if this AsyncListener had been registered via a call to AsyncContext#addListener(AsyncListener, ServletRequest, ServletResponse), the supplied ServletRequest and ServletResponse objects may be retrieved by calling getSuppliedRequest and getSuppliedResponse, respectively, on the given event.

#### **Parameters:**

event - the AsyncEvent indicating that an asynchronous operation has been completed

#### Throws:

java.io.IOException - if an I/O related error has occurred during the processing of the given AsyncEvent

# onTimeout

Notifies this AsyncListener that an asynchronous operation has timed out.

The AsyncContext corresponding to the asynchronous operation that has timed out may be obtained by calling getAsyncContext on the given event.

In addition, if this AsyncListener had been registered via a call to AsyncContext#addListener(AsyncListener, ServletRequest, ServletResponse), the supplied ServletRequest and ServletResponse objects may be retrieved by calling getSuppliedRequest and getSuppliedResponse, respectively, on the given event.

## **Parameters:**

event - the AsyncEvent indicating that an asynchronous operation has timed out

#### **Throws:**

java.io.IOException - if an I/O related error has occurred during the processing of the given AsyncEvent

#### onError

Notifies this AsyncListener that an asynchronous operation has failed to complete.

The AsyncContext corresponding to the asynchronous operation that failed to complete may be obtained by calling getAsyncContext on the given event.

In addition, if this AsyncListener had been registered via a call to

AsyncContext#addListener(AsyncListener, ServletRequest, ServletResponse), the supplied ServletRequest and ServletResponse objects may be retrieved by calling getSuppliedRequest and getSuppliedResponse, respectively, on the given event.

#### **Parameters:**

event - the AsyncEvent indicating that an asynchronous operation has failed to complete **Throws:** 

java.io.IOException - if an I/O related error has occurred during the processing of the given AsyncEvent

# onStartAsync

```
void onStartAsync(AsyncEvent event)
```

AsyncListener (Java EE 6)

throws java.io.IOException

Notifies this AsyncListener that a new asynchronous cycle is being initiated via a call to one of the ServletRequest#startAsync methods.

The AsyncContext corresponding to the asynchronous operation that is being reinitialized may be obtained by calling getAsyncContext on the given event.

In addition, if this AsyncListener had been registered via a call to

AsyncContext#addListener(AsyncListener, ServletRequest, ServletResponse), the supplied ServletRequest and ServletResponse objects may be retrieved by calling getSuppliedRequest and getSuppliedResponse, respectively, on the given event.

This AsyncListener will not receive any events related to the new asynchronous cycle unless it registers itself (via a call to AsyncContext#addListener) with the AsyncContext that is delivered as part of the given AsyncEvent.

#### **Parameters:**

event - the AsyncEvent indicating that a new asynchronous cycle is being initiated

#### **Throws:**

java.io.IOException - if an I/O related error has occurred during the processing of the given AsyncEvent

# Overview Package Class Tree Deprecated Index Help

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 ${\sf SUMMARY: NESTED \mid FIELD \mid CONSTR \mid \underline{\sf METHOD}}$ 

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DETAIL: FIELD | CONSTR | METHOD

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PREVICUASS NEXT CLASS
SUMMARY: NESTED | ENUMICONSTANTS | FIELD | METHOD

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DETAIL: ENUM CONSTANTS | FIELD | METHOD

# javax.servlet

# **Enum DispatcherType**

# **All Implemented Interfaces:**

java.io.Serializable, java.lang.Comparable<<u>DispatcherType</u>>

public enum DispatcherType
extends java.lang.Enum<DispatcherType>

Enumeration of filter dispatcher types.

#### Since:

Servlet 3.0

| <b>Enum Constant Summary</b> |  |
|------------------------------|--|
| ASYNC                        |  |
| ERROR                        |  |
| FORWARD                      |  |
| INCLUDE                      |  |
| REQUEST                      |  |

| Method Summary               |  |  |
|------------------------------|--|--|
| static <u>DispatcherType</u> | valueOf (java.lang.String name)  Returns the enum constant of this type with the specified name. |  |
| static DispatcherType[]      |  |  |
|                              | Returns an array containing the constants of this enum type, in the order they are declared.     |  |

## Methods inherited from class java.lang.Enum

clone, compareTo, equals, finalize, getDeclaringClass, hashCode, name, ordinal,
toString, valueOf

# Methods inherited from class java.lang.Object

1 de 3 15/05/2014 05:06 p.m.

getClass, notify, notifyAll, wait, wait, wait

# **Enum Constant Detail**

## **FORWARD**

public static final DispatcherType FORWARD

# **INCLUDE**

public static final DispatcherType INCLUDE

# **REQUEST**

public static final DispatcherType REQUEST

# **ASYNC**

public static final DispatcherType ASYNC

# **ERROR**

public static final DispatcherType ERROR

# **Method Detail**

#### values

```
public static DispatcherType[] values()
```

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

```
for (DispatcherType c : DispatcherType.values())
    System.out.println(c);
```

# **Returns:**

an array containing the constants of this enum type, in the order they are declared

#### valueOf

```
public static DispatcherType valueOf(java.lang.String name)
```

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

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## **Parameters:**

name - the name of the enum constant to be returned.

#### **Returns:**

the enum constant with the specified name

## **Throws:**

IllegalArgumentException - if this enum type has no constant with the specified name java.lang.NullPointerException - if the argument is null

# Overview Package Class Tree Deprecated Index Help

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javax.servlet

# **Interface Filter**

public interface Filter

A filter is an object that performs filtering tasks on either the request to a resource (a servlet or static content), or on the response from a resource, or both.

Filters perform filtering in the doFilter method. Every Filter has access to a FilterConfig object from which it can obtain its initialization parameters, and a reference to the ServletContext which it can use, for example, to load resources needed for filtering tasks.

Filters are configured in the deployment descriptor of a web application.

Examples that have been identified for this design are:

- 1. Authentication Filters
- 2. Logging and Auditing Filters
- 3. Image conversion Filters
- 4. Data compression Filters
- 5. Encryption Filters
- 6. Tokenizing Filters
- 7. Filters that trigger resource access events
- 8. XSL/T filters
- 9. Mime-type chain Filter

#### Since:

Servlet 2.3

# **Method Summary**

void destroy()

Called by the web container to indicate to a filter that it is being taken out of service.

void doFilter (ServletRequest request, ServletResponse response, FilterChain chain)

The dofilter method of the Filter is called by the container each time a request/response pair is passed through the chain due to a client request for a resource at the end of the chain.

void <u>init(FilterConfig</u> filterConfig)

Called by the web container to indicate to a filter that it is being placed into service.

# **Method Detail**

## init

Called by the web container to indicate to a filter that it is being placed into service.

The servlet container calls the init method exactly once after instantiating the filter. The init method must complete successfully before the filter is asked to do any filtering work.

The web container cannot place the filter into service if the init method either

- 1. Throws a ServletException
- 2. Does not return within a time period defined by the web container

#### **Throws:**

ServletException

# doFilter

The doFilter method of the Filter is called by the container each time a request/response pair is passed through the chain due to a client request for a resource at the end of the chain. The FilterChain passed in to this method allows the Filter to pass on the request and response to the next entity in the chain.

A typical implementation of this method would follow the following pattern:

- 1. Examine the request
- 2. Optionally wrap the request object with a custom implementation to filter content or headers for input filtering
- 3. Optionally wrap the response object with a custom implementation to filter content or headers for output filtering
- 4. **Either** invoke the next entity in the chain using the FilterChain object (chain.doFilter()),
  - or not pass on the request/response pair to the next entity in the filter chain to block the request processing
- 5. Directly set headers on the response after invocation of the next entity in the filter chain.

#### **Throws:**

```
java.io.IOException
ServletException
```

# destroy

```
void destroy()
```

Called by the web container to indicate to a filter that it is being taken out of service.

This method is only called once all threads within the filter's doFilter method have exited or after a

timeout period has passed. After the web container calls this method, it will not call the doFilter method again on this instance of the filter.

This method gives the filter an opportunity to clean up any resources that are being held (for example, memory, file handles, threads) and make sure that any persistent state is synchronized with the filter's current state in memory.

# Overview Package Class Tree Deprecated Index Help

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javax.servlet

# **Interface FilterChain**

public interface FilterChain

A FilterChain is an object provided by the servlet container to the developer giving a view into the invocation chain of a filtered request for a resource. Filters use the FilterChain to invoke the next filter in the chain, or if the calling filter is the last filter in the chain, to invoke the resource at the end of the chain.

#### Since:

Servlet 2.3

#### See Also:

Filter

# **Method Summary**

void doFilter(ServletRequest request, ServletResponse response)

Causes the next filter in the chain to be invoked, or if the calling filter is the last filter in the chain, causes the resource at the end of the chain to be invoked.

# **Method Detail**

# doFilter

Causes the next filter in the chain to be invoked, or if the calling filter is the last filter in the chain, causes the resource at the end of the chain to be invoked.

#### **Parameters:**

request - the request to pass along the chain. response - the response to pass along the chain.

#### **Throws:**

java.io.IOException
ServletException

# Overview Package Class Tree Deprecated Index Help

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javax.servlet

# **Interface FilterConfig**

public interface FilterConfig

A filter configuration object used by a servlet container to pass information to a filter during initialization.

Since:

Servlet 2.3

See Also:

Filter

| Method Summary  |  |  |
|---|--|--|
| java.lang.String  | Returns the filter-name of this filter as defined in the deployment descriptor.  |  |
| java.lang.String  | getInitParameter (java.lang.String name)  Returns a String containing the value of the named initialization parameter, or null if the initialization parameter does not exist. |  |
| java.util.Enumeration <java.lang.string></java.lang.string> | Returns the names of the filter's initialization parameters as an Enumeration of String objects, or an empty Enumeration if the filter has no initialization parameters.       |  |
| ServletContext  | getServletContext()  Returns a reference to the ServletContext in which the caller is executing.   |  |

# **Method Detail**

# getFilterName

java.lang.String getFilterName()

Returns the filter-name of this filter as defined in the deployment descriptor.

# getServletContext

 $\underline{\texttt{ServletContext}} \ \ \textbf{getServletContext} (\ )$ 

Returns a reference to the ServletContext in which the caller is executing.

#### **Returns:**

a ServletContext object, used by the caller to interact with its servlet container

#### See Also:

ServletContext

# getInitParameter

```
java.lang.String getInitParameter(java.lang.String name)
```

Returns a String containing the value of the named initialization parameter, or null if the initialization parameter does not exist.

#### **Parameters:**

name - a String specifying the name of the initialization parameter

#### **Returns:**

a string containing the value of the initialization parameter, or null if the initialization parameter does not exist

# **getInitParameterNames**

```
java.util.Enumeration<java.lang.String> getInitParameterNames()
```

Returns the names of the filter's initialization parameters as an Enumeration of String objects, or an empty Enumeration if the filter has no initialization parameters.

#### **Returns:**

an Enumeration of String objects containing the names of the filter's initialization parameters

# Overview Package Class Tree Deprecated Index Help

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javax.servlet

# **Interface FilterRegistration.Dynamic**

# **All Superinterfaces:**

FilterRegistration, Registration, Registration. Dynamic

# **Enclosing interface:**

FilterRegistration

public static interface FilterRegistration.Dynamic
extends FilterRegistration, Registration.Dynamic

Interface through which a Filter registered via one of the addFilter methods on ServletContext may be further configured.

# **Nested Class Summary**

# Nested classes/interfaces inherited from interface javax.servlet.<u>FilterRegistration</u>

FilterRegistration.Dynamic

# **Method Summary**

#### Methods inherited from interface javax.servlet.<u>FilterRegistration</u>

addMappingForServletNames, addMappingForUrlPatterns, getServletNameMappings,
getUrlPatternMappings

## Methods inherited from interface javax.servlet.Registration.Dynamic

setAsyncSupported

#### Methods inherited from interface javax.servlet.Registration

getClassName, getInitParameter, getInitParameters, getName, setInitParameter,
setInitParameters

## Overview Package Class Tree Deprecated Index Help

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## javax.servlet

# Class GenericServlet

java.lang.Object

└ javax.servlet.GenericServlet

# **All Implemented Interfaces:**

java.io.Serializable, Servlet, ServletConfig

#### **Direct Known Subclasses:**

HttpServlet

```
public abstract class GenericServlet
extends java.lang.Object
implements Servlet, ServletConfig, java.io.Serializable
```

Defines a generic, protocol-independent servlet. To write an HTTP servlet for use on the Web, extend <a href="httpServlet">httpServlet</a> instead.

GenericServlet implements the Servlet and ServletConfig interfaces. GenericServlet may be directly extended by a servlet, although it's more common to extend a protocol-specific subclass such as HttpServlet.

GenericServlet makes writing servlets easier. It provides simple versions of the lifecycle methods init and destroy and of the methods in the ServletConfig interface. GenericServlet also implements the log method, declared in the ServletContext interface.

To write a generic servlet, you need only override the abstract service method.

#### **Author:**

Various

## See Also:

Serialized Form

# **Constructor Summary**

GenericServlet()

Does nothing.

| Method Summary   |  |
|------------------|--|
| void             | destroy() Called by the servlet container to indicate to a                                   |
|                  | servlet that the servlet is being taken out of service.                                      |
| java.lang.String | getInitParameter (java.lang.String name)  Returns a String containing the value of the named |

|   | initialization parameter, or null if the parameter does not exist.  |
|---|---|
| java.util.Enumeration <java.lang.string></java.lang.string> | getInitParameterNames()  Returns the names of the servlet's initialization parameters as an Enumeration of String objects, or an empty Enumeration if the servlet has no initialization parameters. |
| <u>ServletConfig</u>  | Returns this servlet's ServletConfig object.  |
| ServletContext  | getServletContext()  Returns a reference to the ServletContext in which this servlet is running.  |
| java.lang.String  | Returns information about the servlet, such as author, version, and copyright.  |
| java.lang.String  | Returns the name of this servlet instance.  |
| void  | A convenience method which can be overridden so that there's no need to call super.init(config).  |
| void  | init (ServletConfig config) Called by the servlet container to indicate to a servlet that the servlet is being placed into service.   |
| void  | log(java.lang.String msg) Writes the specified message to a servlet log file, prepended by the servlet's name.  |
| void  | log(java.lang.String message, java.lang.Throwable t)  Writes an explanatory message and a stack trace for a given Throwable exception to the servlet log file, prepended by the servlet's name.     |
| abstract void   | Service (ServletRequest req, ServletResponse res)  Called by the servlet container to allow the servlet to respond to a request.  |

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait,
wait

# **Constructor Detail**

# **GenericServlet**

public GenericServlet()

Does nothing. All of the servlet initialization is done by one of the  ${\tt init}$  methods.

# **Method Detail**

# destroy

public void destroy()

Called by the servlet container to indicate to a servlet that the servlet is being taken out of service. See Servlet#destroy.

# Specified by:

destroy in interface Servlet

# getInitParameter

```
public java.lang.String getInitParameter(java.lang.String name)
```

Returns a String containing the value of the named initialization parameter, or null if the parameter does not exist. See ServletConfig#getInitParameter.

This method is supplied for convenience. It gets the value of the named parameter from the servlet's ServletConfig object.

## **Specified by:**

getInitParameter in interface ServletConfig

#### **Parameters:**

name - a String specifying the name of the initialization parameter

## **Returns:**

String a String containing the value of the initialization parameter

# ${\bf get Init Parameter Names}$

```
public java.util.Enumeration<java.lang.String> getInitParameterNames()
```

Returns the names of the servlet's initialization parameters as an Enumeration of String objects, or an empty Enumeration if the servlet has no initialization parameters. See ServletConfig#getInitParameterNames.

This method is supplied for convenience. It gets the parameter names from the servlet's ServletConfig object.

#### **Specified by:**

getInitParameterNames in interface ServletConfig

# **Returns:**

Enumeration an enumeration of String objects containing the names of the servlet's initialization parameters

# getServletConfig

```
public ServletConfig getServletConfig()
```

Returns this servlet's ServletConfig object.

# Specified by:

 $\underline{\mathtt{getServletConfig}}\ in\ interface\ \mathtt{Servlet}$ 

#### **Returns:**

ServletConfig the ServletConfig object that initialized this servlet

#### See Also:

Servlet.init(javax.servlet.ServletConfig)

# getServletContext

```
public ServletContext getServletContext()
```

Returns a reference to the ServletContext in which this servlet is running. See ServletConfig#getServletContext.

This method is supplied for convenience. It gets the context from the servlet's ServletConfig object.

# Specified by:

getServletContext in interface ServletConfig

#### Returns

ServletContext the ServletContext object passed to this servlet by the init method

#### See Also:

ServletContext

# getServletInfo

```
public java.lang.String getServletInfo()
```

Returns information about the servlet, such as author, version, and copyright. By default, this method returns an empty string. Override this method to have it return a meaningful value. See Servlet#getServletInfo.

#### **Specified by:**

```
getServletInfo in interface Servlet
```

#### **Returns:**

String information about this servlet, by default an empty string

#### init

```
\begin{array}{c} \text{public void } \textbf{init} (\underline{ServletConfig} \ config) \\ \\ \text{throws} \ \overline{ServletException} \end{array}
```

Called by the servlet container to indicate to a servlet that the servlet is being placed into service. See Servlet#init.

This implementation stores the ServletConfig object it receives from the servlet container for later use. When overriding this form of the method, call super.init(config).

# Specified by:

init in interface Servlet

### **Parameters:**

config - the ServletConfig object that contains configutation information for this servlet

ServletException - if an exception occurs that interrupts the servlet's normal operation

#### See Also:

UnavailableException

## init

A convenience method which can be overridden so that there's no need to call super.init(config).

Instead of overriding <u>init(ServletConfig)</u>, simply override this method and it will be called by GenericServlet.init(ServletConfig config). The ServletConfig object can still be retrieved via <u>getServletConfig()</u>.

### **Throws:**

ServletException - if an exception occurs that interrupts the servlet's normal operation

# log

```
public void log(java.lang.String msg)
```

Writes the specified message to a servlet log file, prepended by the servlet's name. See ServletContext#log(String).

#### **Parameters:**

msg - a String specifying the message to be written to the log file

# log

Writes an explanatory message and a stack trace for a given Throwable exception to the servlet log file, prepended by the servlet's name. See ServletContext#log(String, Throwable).

#### **Parameters:**

```
message - a String that describes the error or exception t - the java.lang. Throwable error or exception
```

# service

```
\begin{array}{ccc} \text{public abstract void } \textbf{service}(\underbrace{\frac{ServletRequest}{ServletResponse}}_{} \text{req,} \\ & \underbrace{\frac{ServletResponse}{ServletException}}_{} \text{pava.io.IOException} \end{array}
```

Called by the servlet container to allow the servlet to respond to a request. See Servlet#service.

This method is declared abstract so subclasses, such as HttpServlet, must override it.

# Specified by:

service in interface Servlet

#### **Parameters:**

req - the ServletRequest object that contains the client's request

res - the ServletResponse object that will contain the servlet's response

#### **Throws:**

ServletException - if an exception occurs that interferes with the servlet's normal operation occurred

java.io.IOException - if an input or output exception occurs

# getServletName

```
public java.lang.String getServletName()
```

Returns the name of this servlet instance. See ServletConfig#getServletName.

# Specified by:

getServletName in interface ServletConfig

#### **Returns:**

the name of this servlet instance

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javax.servlet

# **Class HttpConstraintElement**

java.lang.Object

javax.servlet.HttpConstraintElement

#### **Direct Known Subclasses:**

HttpMethodConstraintElement, ServletSecurityElement

```
public class HttpConstraintElement
extends java.lang.Object
```

Java Class representation of an HttpConstraint annotation value.

### Since:

Servlet 3.0

# **Constructor Summary**

HttpConstraintElement()

Constructs a default HTTP constraint element

HttpConstraintElement(ServletSecurity.EmptyRoleSemantic semantic)

Convenience constructor to establish EmptyRoleSemantic.DENY

HttpConstraintElement(ServletSecurity.EmptyRoleSemantic semantic,

<u>ServletSecurity.TransportGuarantee</u> guarantee, java.lang.String... roleNames)

 $Constructor\ to\ establish\ all\ of\ getEmptyRoleSemantic,\ getRolesAllowed,\ and\ getTransportGuarantee.$ 

```
HttpConstraintElement(ServletSecurity.TransportGuarantee guarantee,
java.lang.String... roleNames)
```

Constructor to establish non-empty getRolesAllowed and/or

TransportGuarantee.CONFIDENTIAL.

# **Method Summary**

| ServletSecurity.EmptyRoleSemantic  | <pre>getEmptyRoleSemantic()</pre>                            |
|------------------------------------|--|
|                                    | Gets the default authorization semantic.                     |
| java.lang.String[]                 | getRolesAllowed()  |
|                                    | Gets the names of the authorized roles.                      |
| ServletSecurity.TransportGuarantee | getTransportGuarantee()                                      |
|                                    | Gets the data protection requirement (i.e., whether or not   |
|                                    | SSL/TLS is required) that must be satisfied by the transport |
|                                    | connection.  |

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

# **Constructor Detail**

# **HttpConstraintElement**

public HttpConstraintElement()

Constructs a default HTTP constraint element

# HttpConstraintElement

public HttpConstraintElement(ServletSecurity.EmptyRoleSemantic semantic)

Convenience constructor to establish EmptyRoleSemantic.DENY

### **Parameters:**

semantic - should be EmptyRoleSemantic.DENY

# HttpConstraintElement

Constructor to establish non-empty getRolesAllowed and/or TransportGuarantee.CONFIDENTIAL.

# **Parameters:**

```
{\tt guarantee-TransportGuarantee.NONE~Or~TransportGuarantee.CONFIDENTIAL~rolenames-the~names~of~the~roles~that~are~to~be~allowed~access}
```

# HttpConstraintElement

Constructor to establish all of getEmptyRoleSemantic, getRolesAllowed, and getTransportGuarantee.

# **Parameters:**

```
semantic - EmptyRoleSemantic.DENY Or EmptyRoleSemantic.PERMIT guarantee - TransportGuarantee.NONE Or TransportGuarantee.CONFIDENTIAL roleNames - the names of the roles that are to be allowed access, or missing if the semantic is EmptyRoleSemantic.DENY
```

# Method Detail

getEmptyRoleSemantic

public ServletSecurity.EmptyRoleSemantic getEmptyRoleSemantic()

Gets the default authorization semantic.

This value is insignificant when getRolesAllowed returns a non-empty array, and should not be specified when a non-empty array is specified for getRolesAllowed.

#### Returns:

the ServletSecurity.EmptyRoleSemantic to be applied when getRolesAllowed returns an empty (that is, zero-length) array

#### getTransportGuarantee

public ServletSecurity.TransportGuarantee getTransportGuarantee()

Gets the data protection requirement (i.e., whether or not SSL/TLS is required) that must be satisfied by the transport connection.

#### Returns:

the TransportGuarantee indicating the data protection that must be provided by the connection

#### getRolesAllowed

public java.lang.String[] getRolesAllowed()

Gets the names of the authorized roles.

Duplicate role names appearing in getRolesAllowed are insignificant and may be discarded. The String "\*" has no special meaning as a role name (should it occur in getRolesAllowed).

#### Returns:

a (possibly empty) array of role names. When the array is empty, its meaning depends on the value of getEmptyRoleSemantic(). If its value is DENY, and getRolesAllowed returns an empty array, access is to be denied independent of authentication state and identity. Conversely, if its value is PERMIT, it indicates that access is to be allowed independent of authentication state and identity. When the array contains the names of one or more roles, it indicates that access is contingent on membership in at least one of the named roles (independent of the value of getEmptyRoleSemantic()).

#### Class Tree Deprecated Index Help Overview Package

PREVICLASS NEXT CLASS

 ${\sf SUMMARY: NESTED \mid FIELD \mid \underline{CONSTR} \mid \underline{METHOD}}$ 

FRAMES NO FRAMES All Classes DETAIL: FIELD | CONSTR | METHOD

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PREV CLASS NEXT CLASS SUMMARY: NESTED | FIELD | CONSTR | METHOD FRAMES NO FRAMES All Classes DETAIL: FIELD | CONSTR | METHOD

javax.servlet

# Class HttpMethodConstraintElement

java.lang.Object

└ javax.servlet.HttpConstraintElement

\_ javax.servlet.HttpMethodConstraintElement

public class HttpMethodConstraintElement

extends HttpConstraintElement

Java Class representation of an HttpMethodConstraint annotation value.

Since:

Servlet 3.0

# **Constructor Summary**

HttpMethodConstraintElement(java.lang.String methodName)

Constructs an instance with default HttpConstraintElement value.

HttpMethodConstraintElement(java.lang.String methodName,

HttpConstraintElement constraint)

Constructs an instance with specified HttpConstraintElement value.

# Method Summary

java.lang.String getMethodName()

Gets the HTTP method name.

# Methods inherited from class javax.servlet.<u>HttpConstraintElement</u>

getEmptyRoleSemantic, getRolesAllowed, getTransportGuarantee

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

# **Constructor Detail**

# **HttpMethodConstraintElement**

public HttpMethodConstraintElement(java.lang.String methodName)

Constructs an instance with default HttpConstraintElement value.

#### **Parameters:**

methodName - the name of an HTTP protocol method. The name must not be null, or the empty string, and must be a legitimate HTTP Method name as defined by RFC 2616

# HttpMethodConstraintElement

Constructs an instance with specified HttpConstraintElement value.

#### **Parameters:**

methodName - the name of an HTTP protocol method. The name must not be null, or the empty string, and must be a legitimate HTTP Method name as defined by RFC 2616 constraint - the HTTPconstraintElement value to assign to the named HTTP method

# **Method Detail**

# getMethodName

public java.lang.String getMethodName()

Gets the HTTP method name.

# **Returns:**

the Http method name

# Overview Package Class Tree Deprecated Index Help

PREVICUASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes

DETAIL: FIELD | CONSTR | METHOD

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PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

#### javax.servlet

# **Class MultipartConfigElement**

java.lang.Object

\_ javax.servlet.MultipartConfigElement

public class MultipartConfigElement
extends java.lang.Object

Java Class represntation of an MultipartConfig annotation value.

### Since:

Servlet 3.0

# **Constructor Summary**

MultipartConfigElement (MultipartConfig annotation)

Constructs an instance from a MultipartConfig annotation value.

MultipartConfigElement(java.lang.String location)

Constructs an instance with defaults for all but location.

<u>MultipartConfigElement</u>(java.lang.String location, long maxFileSize, long maxRequestSize, int fileSizeThreshold)

Constructs an instance with all values specified.

| Method Summary   |  |
|------------------|--|
| int              | Gets the size threshold after which files will be written to disk. |
| java.lang.String | Gets the directory location where files will be stored.            |
| long             | Gets the maximum size allowed for uploaded files.                  |
| long             | Gets the maximum size allowed for multipart/form-data requests.    |

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

# **Constructor Detail**

# MultipartConfigElement

```
public MultipartConfigElement(java.lang.String location)
```

Constructs an instance with defaults for all but location.

#### **Parameters:**

location - defualts to "" if values is null.

# ${\bf Multipart Config Element}$

Constructs an instance with all values specified.

### **Parameters:**

location - the directory location where files will be stored
maxFileSize - the maximum size allowed for uploaded files
maxRequestSize - the maximum size allowed for multipart/form-data requests
fileSizeThreshold - the size threshold after which files will be written to disk

# MultipartConfigElement

```
public MultipartConfigElement(MultipartConfig annotation)
```

Constructs an instance from a MultipartConfig annotation value.

# **Parameters:**

annotation - the annotation value

# **Method Detail**

# getLocation

```
public java.lang.String getLocation()
```

Gets the directory location where files will be stored.

### **Returns:**

the directory location where files will be stored

# getMaxFileSize

```
public long getMaxFileSize()
```

Gets the maximum size allowed for uploaded files.

### **Returns:**

the maximum size allowed for uploaded files

# getMaxRequestSize

public long getMaxRequestSize()

Gets the maximum size allowed for multipart/form-data requests.

# **Returns:**

the maximum size allowed for multipart/form-data requests

# getFileSizeThreshold

public int getFileSizeThreshold()

Gets the size threshold after which files will be written to disk.

### **Returns:**

the size threshold after which files will be written to disk

# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes

DETAIL: FIELD | CONSTR | METHOD

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PREV CLASS NEXT CLASS

SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

javax.servlet

# **Interface Registration**

#### All Known Subinterfaces:

FilterRegistration, FilterRegistration.Dynamic, Registration.Dynamic, ServletRegistration, ServletRegistration.Dynamic

public interface Registration

Interface through which a Servlet or Filter may be further configured.

A Registration object whose <code>getClassName()</code> method returns null is considered *preliminary*. Servlets and Filters whose implementation class is container implementation specific may be declared without any <code>servlet-class</code> or <code>filter-class</code> elements, respectively, and will be represented as preliminary Registration objects. Preliminary registrations must be completed by calling one of the <code>addServlet</code> or <code>addFilter</code> methods on <code>ServletContext</code>, and passing in the Servlet or Filter name (obtained via <code>getName()</code>) along with the supporting Servlet or Filter implementation class name, Class object, or instance, respectively. In most cases, preliminary registrations will be completed by an appropriate, container-provided <code>ServletContainerInitializer</code>.

#### Since:

Servlet 3.0

# **Nested Class Summary**

static interface

Registration.Dynamic

Interface through which a Servlet or Filter registered via one of the addServlet or addFilter methods, respectively, on ServletContext may be further configured.

| Method Summary  |  |
|---|--|
| java.lang.String  | Gets the fully qualified class name of the Servlet or Filter that is represented Registration.   |
| java.lang.String  | Gets the value of the initialization parameter with the given name that will be initialize the Servlet or Filter represented by this Registration object.  |
| <pre>java.util.Map<java.lang.string,java.lang.string></java.lang.string,java.lang.string></pre> | Gets an immutable (and possibly empty) Map containing the currently availa parameters that will be used to initialize the Servlet or Filter represented by this Re   |
| java.lang.String  | Gets the name of the Servlet or Filter that is represented by this Registration.   |
| boolean   | SetS the initialization parameter with the given name and value on the Servle represented by this Registration.  |
| java.util.Set <java.lang.string></java.lang.string>   | <pre>setInitParameters(java.util.Map<java.lang.string,java.lang.string> is Sets the given initialization parameters on the Servlet or Filter that is represe Registration.</java.lang.string,java.lang.string></pre> |

# Method Detail

# getName

java.lang.String getName()

Gets the name of the Servlet or Filter that is represented by this Registration.

#### Returns

the name of the Servlet or Filter that is represented by this Registration

#### getClassName

```
java.lang.String getClassName()
```

Gets the fully qualified class name of the Servlet or Filter that is represented by this Registration.

#### Dotume

the fully qualified class name of the Servlet or Filter that is represented by this Registration, or null if this Registration is preliminary

#### setInitParameter

Sets the initialization parameter with the given name and value on the Servlet or Filter that is represented by this Registration.

#### Parameters:

```
name - the initialization parameter name value - the initialization parameter value
```

#### Returns:

true if the update was successful, i.e., an initialization parameter with the given name did not already exist for the Servlet or Filter represented by this Registration, and false otherwise

#### Throws:

IllegalStateException - if the ServletContext from which this Registration was obtained has already been initialized IllegalArgumentException - if the given name or value is null

### getInitParameter

```
java.lang.String getInitParameter(java.lang.String name)
```

Gets the value of the initialization parameter with the given name that will be used to initialize the Servlet or Filter represented by this Registration object.

#### **Parameters:**

name - the name of the initialization parameter whose value is requested

#### **Returns:**

the value of the initialization parameter with the given name, or null if no initialization parameter with the given name exists

### setInitParameters

```
java.util.Set<java.lang.String> setInitParameters(java.util.Map<java.lang.String,java.lang.String> initParameters)
```

Sets the given initialization parameters on the Servlet or Filter that is represented by this Registration.

The given map of initialization parameters is processed *by-value*, i.e., for each initialization parameter contained in the map, this method calls setInitParameter(String,String). If that method would return false for any of the initialization parameters in the given map, no updates will be performed, and false will be returned. Likewise, if the map contains an initialization parameter with a null name or value, no updates will be performed, and an IllegalArgumentException will be thrown.

### Parameters:

 $\verb|initParameters| - the initialization| parameters$ 

#### **Returns:**

the (possibly empty) Set of initialization parameter names that are in conflict

#### Throws:

IllegalStateException - if the ServletContext from which this Registration was obtained has already been initialized IllegalArgumentException - if the given map contains an initialization parameter with a null name or value

#### getInitParameters

```
java.util.Map<java.lang.String,java.lang.String> getInitParameters()
```

Gets an immutable (and possibly empty) Map containing the currently available initialization parameters that will be used to initialize the Servlet or Filter represented by this Registration object.

#### Returns:

Registration (Java EE 6)

Map containing the currently available initialization parameters that will be used to initialize the Servlet or Filter represented by this Registration object

# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

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PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

javax.servlet

# **Interface Registration.Dynamic**

# **All Superinterfaces:**

Registration

# All Known Subinterfaces:

FilterRegistration.Dynamic, ServletRegistration.Dynamic

# **Enclosing interface:**

Registration

public static interface Registration.Dynamic
extends Registration

Interface through which a Servlet or Filter registered via one of the addServlet or addFilter methods, respectively, on ServletContext may be further configured.

# **Nested Class Summary**

# Nested classes/interfaces inherited from interface javax.servlet.Registration

Registration.Dynamic

# Method Summary

void

setAsyncSupported(boolean isAsyncSupported)

Configures the Servlet or Filter represented by this dynamic Registration as supporting asynchronous operations or not.

### Methods inherited from interface javax.servlet.Registration

getClassName, getInitParameter, getInitParameters, getName, setInitParameter,
setInitParameters

# **Method Detail**

# setAsyncSupported

void setAsyncSupported(boolean isAsyncSupported)

Configures the Servlet or Filter represented by this dynamic Registration as supporting asynchronous operations or not.

By default, servlet and filters do not support asynchronous operations.

A call to this method overrides any previous setting.

#### **Parameters:**

isAsyncSupported - true if the Servlet or Filter represented by this dynamic Registration supports asynchronous operations, false otherwise

# **Throws:**

 ${\tt IllegalStateException - if the ServletContext from which this dynamic Registration was obtained has already been initialized}$ 

# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

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PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

javax.servlet

# **Interface RequestDispatcher**

public interface RequestDispatcher

Defines an object that receives requests from the client and sends them to any resource (such as a servlet, HTML file, or JSP file) on the server. The servlet container creates the RequestDispatcher object, which is used as a wrapper around a server resource located at a particular path or given by a particular name.

This interface is intended to wrap servlets, but a servlet container can create RequestDispatcher objects to wrap any type of resource.

### **Author:**

**Various** 

#### See Also:

ServletContext#getRequestDispatcher(java.lang.String),
ServletContext#getNamedDispatcher(java.lang.String),
ServletRequest#getRequestDispatcher(java.lang.String)

| Field Summary           |  |
|-------------------------|--|
| static java.lang.String | The name of the request attribute under which the exception object is propagated during an error dispatch                                  |
| static java.lang.String | The name of the request attribute under which the type of the exception object is propagated during an error dispatch                      |
| static java.lang.String | The name of the request attribute under which the exception message is propagated during an error dispatch                                 |
| static java.lang.String | The name of the request attribute under which the request URI whose processing caused the error is propagated during an error dispatch     |
| static java.lang.String | The name of the request attribute under which the name of the servlet in which the error occurred is propagated during an error dispatch   |
| static java.lang.String | The name of the request attribute under which the response status is propagated during an error dispatch                                   |
| static java.lang.String | FORWARD_CONTEXT_PATH  The name of the request attribute under which the original context path is made available to the target of a forward |

| static | java.lang.String | FORWARD_PATH_INFO  The name of the request attribute under which the original path info is made available to the target of a forward       |
|--------|------------------|--|
| static | java.lang.String | FORWARD_QUERY_STRING  The name of the request attribute under which the original query string is made available to the target of a forward |
| static | java.lang.String | The name of the request attribute under which the original request URI is made available to the target of a forward                        |
| static | java.lang.String | FORWARD_SERVLET_PATH  The name of the request attribute under which the original servlet path is made available to the target of a forward |
| static | java.lang.String | The name of the request attribute under which the context path of the target of an <u>include</u> is stored                                |
| static | java.lang.String | The name of the request attribute under which the path info of the target of an <u>include</u> is stored                                   |
| static | java.lang.String | The name of the request attribute under which the query string of the target of an <u>include</u> is stored                                |
| static | java.lang.String | The name of the request attribute under which the request URI of the target of an <u>include</u> is stored                                 |
| static | java.lang.String | The name of the request attribute under which the servlet path of the target of an <u>include</u> is stored                                |

# **Method Summary**

void <a href="forward">forward</a> (ServletRequest</a> request, ServletResponse response)

Forwards a request from a servlet to another resource (servlet, JSP file, or HTML file) on the server.

void <a href="mailto:include">include</a> (ServletRequest request, ServletResponse response)

Includes the content of a resource (servlet, JSP page, HTML file) in the response.

# **Field Detail**

# FORWARD\_REQUEST\_URI

static final java.lang.String FORWARD\_REQUEST\_URI

The name of the request attribute under which the original request URI is made available to the target of a <u>forward</u>

# See Also:

**Constant Field Values** 

# FORWARD\_CONTEXT\_PATH

static final java.lang.String FORWARD\_CONTEXT\_PATH

The name of the request attribute under which the original context path is made available to the target of a forward

See Also:

**Constant Field Values** 

# FORWARD\_PATH\_INFO

static final java.lang.String FORWARD\_PATH\_INFO

The name of the request attribute under which the original path info is made available to the target of a forward

See Also:

**Constant Field Values** 

# FORWARD\_SERVLET\_PATH

static final java.lang.String FORWARD\_SERVLET\_PATH

The name of the request attribute under which the original servlet path is made available to the target of a <u>forward</u>

See Also:

Constant Field Values

# FORWARD\_QUERY\_STRING

static final java.lang.String FORWARD\_QUERY\_STRING

The name of the request attribute under which the original query string is made available to the target of a forward

See Also:

**Constant Field Values** 

# INCLUDE REQUEST\_URI

static final java.lang.String INCLUDE\_REQUEST\_URI

The name of the request attribute under which the request URI of the target of an include is stored

See Also:

**Constant Field Values** 

# INCLUDE\_CONTEXT\_PATH

static final java.lang.String INCLUDE\_CONTEXT\_PATH

The name of the request attribute under which the context path of the target of an <u>include</u> is stored

See Also:

**Constant Field Values** 

# INCLUDE\_PATH\_INFO

static final java.lang.String INCLUDE\_PATH\_INFO

The name of the request attribute under which the path info of the target of an <u>include</u> is stored

See Also:

**Constant Field Values** 

# INCLUDE\_SERVLET\_PATH

static final java.lang.String INCLUDE\_SERVLET\_PATH

The name of the request attribute under which the servlet path of the target of an <u>include</u> is stored

See Also:

**Constant Field Values** 

# INCLUDE\_QUERY\_STRING

static final java.lang.String INCLUDE\_QUERY\_STRING

The name of the request attribute under which the query string of the target of an include is stored

See Also:

**Constant Field Values** 

# ERROR\_EXCEPTION

static final java.lang.String ERROR\_EXCEPTION

The name of the request attribute under which the exception object is propagated during an error dispatch

See Also:

**Constant Field Values** 

# ERROR\_EXCEPTION\_TYPE

static final java.lang.String ERROR\_EXCEPTION\_TYPE

The name of the request attribute under which the type of the exception object is propagated during an error dispatch

### See Also:

**Constant Field Values** 

# ERROR\_MESSAGE

static final java.lang.String ERROR\_MESSAGE

The name of the request attribute under which the exception message is propagated during an error dispatch

# See Also:

**Constant Field Values** 

# ERROR\_REQUEST\_URI

static final java.lang.String ERROR\_REQUEST\_URI

The name of the request attribute under which the request URI whose processing caused the error is propagated during an error dispatch

# See Also:

**Constant Field Values** 

# **ERROR SERVLET NAME**

static final java.lang.String ERROR\_SERVLET\_NAME

The name of the request attribute under which the name of the servlet in which the error occurred is propagated during an error dispatch

### See Also:

**Constant Field Values** 

# ERROR\_STATUS\_CODE

static final java.lang.String  ${\tt ERROR\_STATUS\_CODE}$ 

The name of the request attribute under which the response status is propagated during an error dispatch

### See Also:

**Constant Field Values** 

# **Method Detail**

# forward

```
\begin{tabular}{ll} void & {\bf forward}( \underline{{\tt ServletRequest}} & {\tt request}, \\ & \underline{{\tt ServletResponse}} & {\tt response}) \\ & {\tt throws} & \underline{{\tt ServletException}}, \\ & & {\tt java.io.IOException} \end{tabular},
```

Forwards a request from a servlet to another resource (servlet, JSP file, or HTML file) on the server. This method allows one servlet to do preliminary processing of a request and another resource to generate the response.

For a RequestDispatcher obtained via getRequestDispatcher(), the ServletRequest object has its path elements and parameters adjusted to match the path of the target resource.

forward should be called before the response has been committed to the client (before response body output has been flushed). If the response already has been committed, this method throws an <code>lllegalStateException</code>. Uncommitted output in the response buffer is automatically cleared before the forward.

The request and response parameters must be either the same objects as were passed to the calling servlet's service method or be subclasses of the ServletRequestWrapper or ServletResponseWrapper classes that wrap them.

This method sets the dispatcher type of the given request to Dispatcher Type. FORWARD.

#### **Parameters:**

request - a ServletRequest object that represents the request the client makes of the servlet response - a ServletResponse object that represents the response the servlet returns to the client

#### **Throws:**

ServletException - if the target resource throws this exception java.io.IOException - if the target resource throws this exception IllegalStateException - if the response was already committed

#### **See Also:**

ServletRequest#getDispatcherType

# include

Includes the content of a resource (servlet, JSP page, HTML file) in the response. In essence, this method enables programmatic server-side includes.

The ServletResponse object has its path elements and parameters remain unchanged from the caller's. The included servlet cannot change the response status code or set headers; any attempt to make a change is ignored.

The request and response parameters must be either the same objects as were passed to the calling servlet's service method or be subclasses of the ServletRequestWrapper or ServletResponseWrapper classes that wrap them.

This method sets the dispatcher type of the given request to Dispatcher Type. INCLUDE.

# **Parameters:**

request - a ServletRequest object that contains the client's request response - a ServletResponse object that contains the servlet's response

### **Throws:**

ServletException - if the included resource throws this exception java.io.IOException - if the included resource throws this exception

### See Also:

ServletRequest#getDispatcherType

# Overview Package Class Tree Deprecated Index Help

 PREV CLASS
 NEXT CLASS

 SUMMARY: NESTED | FIELD | CONSTR | METHOD
 DETAIL: FIELD | CONSTR | METHOD

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PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

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DETAIL: FIELD | CONSTR | METHOD

javax.servlet

# **Interface Servlet**

#### **All Known Subinterfaces:**

HttpJspPage, JspPage

# **All Known Implementing Classes:**

FacesServlet, GenericServlet, HttpServlet

public interface Servlet

Defines methods that all servlets must implement.

A servlet is a small Java program that runs within a Web server. Servlets receive and respond to requests from Web clients, usually across HTTP, the HyperText Transfer Protocol.

To implement this interface, you can write a generic servlet that extends javax.servlet.GenericServlet or an HTTP servlet that extends javax.servlet.http.HttpServlet.

This interface defines methods to initialize a servlet, to service requests, and to remove a servlet from the server. These are known as life-cycle methods and are called in the following sequence:

- 1. The servlet is constructed, then initialized with the init method.
- 2. Any calls from clients to the service method are handled.
- 3. The servlet is taken out of service, then destroyed with the destroy method, then garbage collected and finalized.

In addition to the life-cycle methods, this interface provides the <code>getServletConfig</code> method, which the servlet can use to get any startup information, and the <code>getServletInfo</code> method, which allows the servlet to return basic information about itself, such as author, version, and copyright.

# **Author:**

Various

# See Also:

GenericServlet, <a href="httpServlet">HttpServlet</a>

| Method Summary |   |
|----------------|---|
|                | <pre>destroy()     Called by the servlet container to indicate to a servlet that the servlet is being taken out of service.</pre> |
|                | getServletConfig()  Returns a ServletConfig object, which contains initialization and startup parameters for this servlet.        |

| java.lang.String | Returns information about the servlet, such as author, version, and copyright.  |
|------------------|---|
|                  | init (ServletConfig config) Called by the servlet container to indicate to a servlet that the servlet is being placed into service. |
| void             | Service (ServletRequest req, ServletResponse res)  Called by the servlet container to allow the servlet to respond to a request.    |

# **Method Detail**

# init

Called by the servlet container to indicate to a servlet that the servlet is being placed into service.

The servlet container calls the init method exactly once after instantiating the servlet. The init method must complete successfully before the servlet can receive any requests.

The servlet container cannot place the servlet into service if the init method

- 1. Throws a ServletException
- 2. Does not return within a time period defined by the Web server

#### **Parameters:**

config - a ServletConfig object containing the servlet's configuration and initialization parameters

#### **Throws:**

ServletException - if an exception has occurred that interferes with the servlet's normal operation

# See Also:

UnavailableException, getServletConfig()

# getServletConfig

ServletConfig getServletConfig()

Returns a ServletConfig object, which contains initialization and startup parameters for this servlet. The ServletConfig object returned is the one passed to the init method.

Implementations of this interface are responsible for storing the ServletConfig object so that this method can return it. The GenericServlet class, which implements this interface, already does this.

#### **Returns:**

the ServletConfig object that initializes this servlet

#### See Also:

init(javax.servlet.ServletConfig)

15/05/2014 04:50 p.m.

#### service

```
void service(ServletRequest req,
             ServletResponse res)
             throws ServletException,
                    java.io.IOException
```

Called by the servlet container to allow the servlet to respond to a request.

This method is only called after the servlet's init() method has completed successfully.

The status code of the response always should be set for a servlet that throws or sends an error.

Servlets typically run inside multithreaded servlet containers that can handle multiple requests concurrently. Developers must be aware to synchronize access to any shared resources such as files, network connections, and as well as the servlet's class and instance variables. More information on multithreaded programming in Java is available in the Java tutorial on multi-threaded programming.

### **Parameters:**

```
req - the ServletRequest object that contains the client's request
res - the ServletResponse object that contains the servlet's response
```

ServletException - if an exception occurs that interferes with the servlet's normal operation java.io.IOException - if an input or output exception occurs

# getServletInfo

```
java.lang.String getServletInfo()
```

Returns information about the servlet, such as author, version, and copyright.

The string that this method returns should be plain text and not markup of any kind (such as HTML, XML, etc.).

#### **Returns:**

a String containing servlet information

# destroy

```
void destroy()
```

Called by the servlet container to indicate to a servlet that the servlet is being taken out of service. This method is only called once all threads within the servlet's service method have exited or after a timeout period has passed. After the servlet container calls this method, it will not call the service method again on this servlet.

This method gives the servlet an opportunity to clean up any resources that are being held (for example, memory, file handles, threads) and make sure that any persistent state is synchronized with the servlet's current state in memory.

# Overview Package Class Tree Deprecated Index Help

PREVICLASS NEXT CLASS FRAMES NO FRAMES All Classes

SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR |  $\underline{\mathsf{METHOD}}$ 

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PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

javax.servlet

# **Interface ServletConfig**

# **All Known Implementing Classes:**

GenericServlet, HttpServlet

public interface ServletConfig

A servlet configuration object used by a servlet container to pass information to a servlet during initialization.

| Method Summary  |  |  |
|---|--|--|
| java.lang.String  | Gets the value of the initialization parameter with the given name.  |  |
| java.util.Enumeration <java.lang.string></java.lang.string> | Returns the names of the servlet's initialization parameters as an Enumeration of String objects, or an empty Enumeration if the servlet has no initialization parameters. |  |
| ServletContext  | getServletContext()  Returns a reference to the ServletContext in which the caller is executing.   |  |
| java.lang.String  | Returns the name of this servlet instance.   |  |

# **Method Detail**

# getServletName

java.lang.String getServletName()

Returns the name of this servlet instance. The name may be provided via server administration, assigned in the web application deployment descriptor, or for an unregistered (and thus unnamed) servlet instance it will be the servlet's class name.

#### **Returns:**

the name of the servlet instance

# getServletContext

ServletContext getServletContext()

Returns a reference to the ServletContext in which the caller is executing.

#### **Returns:**

a ServletContext object, used by the caller to interact with its servlet container

#### See Also:

ServletContext

# getInitParameter

java.lang.String getInitParameter(java.lang.String name)

Gets the value of the initialization parameter with the given name.

#### **Parameters:**

name - the name of the initialization parameter whose value to get

#### **Returns:**

a String containing the value of the initialization parameter, or null if the initialization parameter does not exist

# getInitParameterNames

java.util.Enumeration<java.lang.String> getInitParameterNames()

Returns the names of the servlet's initialization parameters as an Enumeration of String objects, or an empty Enumeration if the servlet has no initialization parameters.

# **Returns:**

an Enumeration of String objects containing the names of the servlet's initialization parameters

# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

Submit a bug or feature

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PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

javax.servlet

# Interface ServletContainerInitializer

public interface ServletContainerInitializer

Interface which allows a library/runtime to be notified of a web application's startup phase and perform any required programmatic registration of servlets, filters, and listeners in response to it.

Implementations of this interface may be annotated with <a href="https://example.com/hardlesTypes">hardlesTypes</a>, in order to receive (at their <a href="https://example.com/hardlesTypes">onStartup(java.util.Set>, javax.servlet.ServletContext)</a> method) the Set of application classes that implement, extend, or have been annotated with the class types specified by the annotation.

If an implementation of this interface does not use this annotation, or none of the application classes match the ones specified by the annotation, the container must pass a null Set of classes to onStartup(java.util.Set>, javax.servlet.ServletContext).

When examining the classes of an application to see if they match any of the criteria specified by the HandlesTypes annotation of a ServletContainerInitializer, the container may run into classloading problems if any of the application's optional JAR files are missing. Because the container is not in a position to decide whether these types of classloading failures will prevent the application from working correctly, it must ignore them, while at the same time providing a configuration option that would log them.

Implementations of this interface must be declared by a JAR file resource located inside the META-INF/services directory and named for the fully qualified class name of this interface, and will be discovered using the runtime's service provider lookup mechanism or a container specific mechanism that is semantically equivalent to it. In either case, ServletContainerInitializer services from web fragment JAR files excluded from an absolute ordering must be ignored, and the order in which these services are discovered must follow the application's classloading delegation model.

Since:

Servlet 3.0

**See Also:** 

**HandlesTypes** 

# **Method Summary**

void onStartup(java.util.Set<java.lang.Class<?>> c, ServletContext ctx)

Notifies this ServletContainerInitializer of the startup of the application represented by the given ServletContext.

# **Method Detail**

# onStartup

Notifies this ServletContainerInitializer of the startup of the application represented by the given ServletContext.

If this ServletContainerInitializer is bundled in a JAR file inside the WEB-INF/lib directory of an application, its onStartup method will be invoked only once during the startup of the bundling application. If this ServletContainerInitializer is bundled inside a JAR file outside of any WEB-INF/lib directory, but still discoverable as described above, its onStartup method will be invoked every time an application is started.

### **Parameters:**

c - the Set of application classes that extend, implement, or have been annotated with the class types specified by the <a href="HandlesTypes">HandlesTypes</a> annotation, or null if there are no matches, or this ServletContainerInitializer has not been annotated with HandlesTypes ctx - the ServletContext of the web application that is being started and in which the classes contained in c were found

#### **Throws:**

ServletException - if an error has occurred

# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

Submit a bug or feature

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PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

#### javax.servlet

# Interface ServletContext

public interface ServletContext

Defines a set of methods that a servlet uses to communicate with its servlet container, for example, to get the MIME type of a file, dispatch requests, or write to a log file.

There is one context per "web application" per Java Virtual Machine. (A "web application" is a collection of servlets and content installed under a specific subset of the server's URL namespace such as /catalog and possibly installed via a .war file.)

In the case of a web application marked "distributed" in its deployment descriptor, there will be one context instance for each virtual machine. In this situation, the context cannot be used as a location to share global information (because the information won't be truly global). Use an external resource like a database instead.

The ServletContext object is contained within the ServletConfig object, which the Web server provides the servlet when the servlet is initialized.

#### **Author:**

Various

#### See Also:

 ${\tt Servlet} \\ \texttt{ServletConfig}, \\ \texttt{ServletConfig} \\ \texttt{\#getServletContext}$ 

| Field Summary           | Field Summary   |  |  |
|-------------------------|---|--|--|
|                         | ORDERED_LIBS  The name of the ServletContext attribute whose value (of type java.util.List <java.lang.string>)  contains the list of names of JAR files in web-INF/lib ordered by their web fragment names (with possible exclusions if <absolute-ordering> without any <others></others> is being used), or null if no absolute or relative ordering has been specified</absolute-ordering></java.lang.string> |  |  |
| static java.lang.String | TEMPDIR  The name of the ServletContext attribute which stores the private temporary directory (of type java.io.File) provided by the servlet container for the ServletContext  |  |  |

| <b>Method Summary</b>                              |  |
|--|--|
| FilterRegistration.Dynamic                         | addFilter(java.lang.String filterName, java.lang.Class extends Filter filterClass)  Adds the filter with the given name and class type to this servlet context.      |
| FilterRegistration.Dynamic                         | AddFilter (java.lang.String filterName, Filter filter)  Registers the given filter instance with this ServletContext under the given filterName.                     |
| FilterRegistration.Dynamic                         | Adds the filter with the given name and class name to this servlet context.  |
| void   | Adds a listener of the given class type to this ServletContext.  |
| void   | Adds the listener with the given class name to this ServletContext.  |
| <t extends="" java.util.eventlistener=""> void</t> | Adds the given listener to this ServletContext.  |
| ServletRegistration.Dynamic                        | addservlet(java.lang.String servletName, java.lang.Class extends Servlet servletClass)  Adds the servlet with the given name and class type to this servlet context. |
| ServletRegistration.Dynamic                        | AddServlet(java.lang.String servletName, Servlet servlet)  Registers the given servlet instance with this ServletContext under the given servletName.                |
| ServletRegistration.Dynamic                        | Adds the servlet with the given name and class name to this servlet context.   |
| <t <u="" extends="">Filter&gt;</t>                 | <u>createFilter</u> (java.lang.Class <t> clazz) Instantiates the given Filter class.</t>   |
| <t extends="" java.util.eventlistener=""></t>      | <u>createListener</u> (java.lang.Class <t> clazz)  Instantiates the given EventListener class.</t>   |
| <t <u="" extends="">Servlet&gt;</t>                | <u>createServlet</u> (java.lang.Class <t> clazz) Instantiates the given Servlet class.</t>   |

| declaresholder (jave.labs)roleRemer)  |          |
|---|----------|
| java_util_Brumerations_java_lang_String_ java_util_Brumerations_java_lang_String_ patktribute_java_lang_string_ patktribute_java_lang_string_patktribute_ patktribute_java_lang_string_patktribute_ patktribute_java_lang_string_patktribute_ patktribute_java_lang_string_patktribute_pat                        |          |
| Returns the servlet container attribute with the given name, or mult if there is note by that name.  3ava.util.Enumerations/java.lang.Strings  ServletContext.  5ava.lang.Glaesloader  ServletContext.  5ava.util.Set<br>ServletContext.  5ava.util.Set<  |          |
| Returns an Enumeration containing the attribute names available within this ServletContext.    java.lang.Classionder    ServletContext                            | ttribute |
| ServletContext.    java.lang.ClassLonder   Get the class loader of the web application represented by this ServletContext.   getCastLonder   Get the class loader of the web application represented by this ServletContext.   getCastLonder   Get the class loader of the web application represented by this ServletContext.   Returns a ServletContext between   Get the major version of the servlet specification that the application represented   ServletContext is based on.   |          |
| Gets the class loader of the web application represented by this ServletContext.    ServletContext   getContext(java.lang.string uripsth)   |          |
| Returns a ServletContext object that corresponds to a specified URL on the serv java.lang.String getContextEath()  Returns the context path of the web application.  getDefaultSessionTrackingModes()  Gets the session tracking modes that are supported by default for this ServletContext is based on.  getEfactiveMajorVersion()  Gets the major version of the Servlet specification that the application represented ServletContext is based on.  getEfactiveMinorVersion()  Gets the minor version of the Servlet specification that the application represented ServletContext is based on.  getEfactiveSessionTrackingModes()  Gets the minor version of the Servlet specification that the application represented ServletContext is based on.  getEfactiveSessionTrackingModes()  Gets the minor version of the Servlet specification that the application represented ServletContext is based on.  getEfactiveSessionTrackingModes()  Gets the minor version of the Servlet specification that the application represented ServletContext is the session tracking modes that are in effect for this ServletContext.  getFilterRegistrations()  Gets the FilterRegistration or oresponding to the filter with the given filterName.  getFilterRegistrations()  Gets a (possibly empty) Map of the FilterRegistration objects (keyed by filter name or mall if the parameter does not exist.  getTilterRegistrations()  Returns a String containing the value of the named context-wide initialization parameters.  getContinued and filters registered with this ServletContext.  getTilterRegistrations()  Returns the minor version of the Servlet API that this servlet container supports.  getKinortexion()  Returns the minor version of the Servlet API that this servlet container supports.  getKinortexion()  Returns the minor version of the Servlet API that this servlet container supports.  getNamedTilterTilter Apiva.lang.String path)  Returns a RequestDispatcher Object that acts as a wrapper for the named servlet.  getNamedTilterTilter Apiva.lang.String path)  Returns a RequestDispatch                        |          |
| Returns the context path of the web application.  java.util.Set <sessiontrackingmode> Gets the session tracking modes that are supported by default for this servletcon Gets the session tracking modes that are supported by default for this servletcon to the Servlet specification that the application represented servletContext is based on.  getEffectiveMinorVersion() Gets the minor version of the Servlet specification that the application represented ServletContext is based on.  getEffectiveMinorVersion() Gets the session trackingModes (ServletContext is based on.  getEffectiveMinorVersion() Gets the session tracking modes that are in effect for this servletContext.  getEffectiveMinorVersion() Gets the Session tracking modes that are in effect for this servletContext.  getEffectiveMinorVersion() Gets the Session tracking modes that are in effect for this servletContext.  getEffectiveMinorVersion() Gets the FilterRegistration corresponding to the filter with the given filterName.  getEffectiveMinorVersion() Gets the FilterRegistration objects (keyed by filter name corresponding to all filters registered with this ServletContext.  getInitParameter(java.lang.String name) Returns the Servlet ontaining the value of the named context-wide initialization parameters are not exist.  getInitParameter(java.lang.String name) Returns the names of the context's initialization parameters.  getInitParameter/Sames() Returns the names of the context's initialization parameters.  getInitParameter/Sames() Returns the major version of the Servlet API that this servlet container supports.  getMinorVersion() Returns the major version of the Servlet API that this servlet container supports.  getMajorVersion() Returns the major version of the Servlet API that this servlet container supports.  getMajorVersion() Returns the minor version of the Servlet API that this servlet container supports.  getMajorVersion() Returns the minor version of the Servlet API that this servlet container supports.  getMajorVersion() Returns the minor version of</sessiontrackingmode> | er.      |
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| Gets the major version of the Servlet specification that the application represented ServletContext is based on.    ServletContext is based on.   | ext.     |
| Gets the minor version of the Servlet specification that the application represented ServletContext is based on.    java.util.Set<  SessionTrackingModes     Gets the session tracking modes that are in effect for this ServletContext.     getFiterRegistration     Gets the session tracking modes that are in effect for this ServletContext.     getFiterRegistration     Gets the FiterRegistration     Gets the FiterRegistration     Gets the FiterRegistration     Gets a (possibly empty) Map of the FiterRegistration objects (keyed by filter name corresponding to all filters registered with this ServletContext.     getTiterRegistration     Gets a (possibly empty) Map of the FiterRegistration objects (keyed by filter name corresponding to all filters registered with this ServletContext.     getTiterRegistration     Gets a (possibly empty) Map of the FiterRegistration objects (keyed by filter name corresponding to all filters registered with this ServletContext.     getTiterRegistration     Gets a (possibly empty) Map of the FiterRegistration objects (keyed by filter name corresponding to all filters registered with this ServletContext.     getTiterRegistration     Gets a (possibly empty) Map of the FiterRegistration objects (keyed by filter name corresponding to all filters registered with this ServletContext.     getTiterRegistration     Gets a (possibly empty) Map of the FiterRegistration objects (keyed by filter name corresponding to the named context-wide initialization parameters as a request parameters as a print parameter does not exist.     getTiterRegistration     Gets a (possibly empty) Map of the FiterRegistration objects, or an empty filterRegistration objects, or an empty filterRegistration     getTiterRegistration     Gets a (possibly empty) Map of the FiterRegistration objects, or an empty filterRegistration     getTiterRegistration     Gets a (possibly empty) Map of the FiterRegistration     getTiterRegistration     Gets a (possibly empty Map of the FiterRegistration     Gets a (possibly empty Map of the F                        | by this  |
| Gets the session tracking modes that are in effect for this servletContext.    FilterRegistration   | by this  |
| Gets the FilterRegistration corresponding to the filter with the given filterName.    java.util.Map <java.lang.string  (java.lang.string="" (keyed="" (possibly="" a="" all="" an="" are="" as="" by="" containing="" context="" context-wide="" corresponding="" empty="" empty)="" enumeration="" filter="" filter.="" filterregistration="" filters="" gets="" has="" if="" initialization="" is="" it="" java.lang.string ="" java.util.enumeration<="" map="" name="" name)="" named="" nearly="" no="" objects="" objects,="" of="" or="" p="" parameter="" parameters="" parameters.="" registered="" returns="" servletcontext.="" string="" the="" this="" to="" value="" with=""  ="">   Gets the 'jsp-config's related configuration that was aggregated from the web.xr web-fragment.xml descriptor files of the web application represented by this ServletCo fitt    </java.lang.string >   |          |
| Gets a (possibly empty) Map of the FilterRegistration objects (keyed by filter name corresponding to all filters registered with this ServletContext.    java.lang.String   |          |
| Returns a String containing the value of the named context-wide initialization part or null if the parameter does not exist.  java.util.Enumeration <java.lang.string> getInitParameterNames() Returns the names of the context's initialization parameters as an Enumeration of objects, or an empty Enumeration if the context has no initialization parameters.  getJspConfigDescriptor() Gets the <jsp-config> related configuration that was aggregated from the web.xx web-fragment.xml descriptor files of the web application represented by this ServletContext has no initialization parameters.  getMajorVersion() Returns the major version of the Servlet API that this servlet container supports.  getMinorVersion() Returns the MIME type of the specified file, or null if the MIME type is not know getMinorVersion() Returns the minor version of the Servlet API that this servlet container supports.  getNameObjapatcher(java.lang.String name) Returns a RequestDispatcher object that acts as a wrapper for the named servlet.  getRealPath(java.lang.String path) Gets the real path corresponding to the given virtual path.  getRequestDispatcher(java.lang.String path) Returns a RequestDispatcher object that acts as a wrapper for the resource locate given path.  getResource(java.lang.String path) Returns a URL to the resource that is mapped to the given path.  getResourceAsStream(java.lang.String path) Returns a URL to the resource that is mapped to the given path.</jsp-config></java.lang.string>   | e)       |
| Returns the names of the context's initialization parameters as an Enumeration of objects, or an empty Enumeration if the context has no initialization parameters.  JapConfigDescriptor  Gets the <jsp-config> related configuration that was aggregated from the web.xr web-fragment.xml descriptor files of the web application represented by this ServletCo int  getMajorVersion()  Returns the major version of the Servlet API that this servlet container supports.  java.lang.String  getMineType(java.lang.String file)  Returns the MIME type of the specified file, or null if the MIME type is not know int  getMinorVersion()  Returns the minor version of the Servlet API that this servlet container supports.  RequestDispatcher  getNamedDispatcher(java.lang.String name)  Returns a RequestDispatcher object that acts as a wrapper for the named servlet.  java.lang.String  getRealPath(java.lang.String path)  Gets the real path corresponding to the given virtual path.  Returns a RequestDispatcher (java.lang.String path)  Returns a RequestDispatcher object that acts as a wrapper for the resource locate given path.  java.net.URL  getResource(java.lang.String path)  Returns a URL to the resource that is mapped to the given path.</jsp-config>  | ameter,  |
| Gets the <jsp-config> related configuration that was aggregated from the web.xr web-fragment.xml descriptor files of the web application represented by this ServletCo  int getMajorVersion() Returns the major version of the Servlet API that this servlet container supports.  java.lang.String getMimeType(java.lang.String file) Returns the MIME type of the specified file, or null if the MIME type is not know getMinorVersion() Returns the minor version of the Servlet API that this servlet container supports.  getNamedDispatcher(java.lang.String name) Returns a RequestDispatcher object that acts as a wrapper for the named servlet.  java.lang.String getRealPath(java.lang.String path) Gets the real path corresponding to the given virtual path.  getRequestDispatcher(java.lang.String path) Returns a RequestDispatcher object that acts as a wrapper for the resource locate given path.  java.net.URL getResource(java.lang.String path) Returns a URL to the resource that is mapped to the given path.  getResourceAsStream(java.lang.String path) Returns a URL to the resource that is mapped to the given path.</jsp-config>  | String   |
| Returns the major version of the Servlet API that this servlet container supports.  java.lang.String  getMimeType(java.lang.String file)  Returns the MIME type of the specified file, or null if the MIME type is not known int  getMinorVersion()  Returns the minor version of the Servlet API that this servlet container supports.  getNamedDispatcher(java.lang.String name)  Returns a RequestDispatcher object that acts as a wrapper for the named servlet.  java.lang.String  getRealPath(java.lang.String path)  Gets the real path corresponding to the given virtual path.  Returns a RequestDispatcher (java.lang.String path)  Returns a RequestDispatcher object that acts as a wrapper for the resource locate given path.  java.net.URL  getResource(java.lang.String path)  Returns a URL to the resource that is mapped to the given path.  java.io.InputStream  getResourceAsStream(java.lang.String path)   |          |
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| Returns the minor version of the Servlet API that this servlet container supports.  RequestDispatcher (java.lang.String name)  Returns a RequestDispatcher object that acts as a wrapper for the named servlet.  java.lang.String getRealPath(java.lang.String path)  Gets the real path corresponding to the given virtual path.  RequestDispatcher (java.lang.String path)  Returns a RequestDispatcher object that acts as a wrapper for the resource locate given path.  java.net.URL getResource(java.lang.String path)  Returns a URL to the resource that is mapped to the given path.  java.io.InputStream getResourceAsStream(java.lang.String path)   | /n.      |
| Returns a RequestDispatcher object that acts as a wrapper for the named servlet.  java.lang.String getRealPath(java.lang.String path)  Gets the real path corresponding to the given virtual path.  RequestDispatcher getRequestDispatcher(java.lang.String path)  Returns a RequestDispatcher object that acts as a wrapper for the resource locate given path.  java.net.URL getResource(java.lang.String path)  Returns a URL to the resource that is mapped to the given path.  java.io.InputStream getResourceAsStream(java.lang.String path)  |          |
| Gets the real path corresponding to the given virtual path.    RequestDispatcher   getRequestDispatcher (java.lang.String path)   |          |
| Returns a RequestDispatcher object that acts as a wrapper for the resource locate given path.  java.net.URL getResource(java.lang.String path)  Returns a URL to the resource that is mapped to the given path.  java.io.InputStream getResourceAsStream(java.lang.String path)   |          |
| Returns a URL to the resource that is mapped to the given path.  java.io.InputStream (java.lang.String path)  | d at the |
|   |          |
| Returns the resource located at the named path as an InputStream object.  |          |
| java.util.Set <java.lang.string> <a href="mailto:getResourcePaths">getResourcePaths</a>(java.lang.String path)  Returns a directory-like listing of all the paths to resources within the web applica whose longest sub-path matches the supplied path argument.</java.lang.string>   | ion      |
| java.lang.String getServerInfo()  Returns the name and version of the servlet container on which the servlet is running the servlet is running to the servlet container on which the servlet is running to the servlet is running                         | ng.      |
| Servlet getServlet (java.lang.String name)  Deprecated. As of Java Servlet API 2.1, with no direct replacement.   |          |
| This method was originally defined to retrieve a servlet from a ServletContext. In this this method always returns null and remains only to preserve binary compatibility. This   |          |

|   | will be permanently removed in a future version of the Java Servlet API.   |
|---|--|
|   | In lieu of this method, servlets can share information using the ServletContext class and can perform shared business logic by invoking methods on common non-servlet classes.   |
| java.lang.String  | Returns the name of this web application corresponding to this ServletContext as specified in the deployment descriptor for this web application by the display-name element.  |
| java.util.Enumeration <java.lang.string></java.lang.string>   | Deprecated. As of Java Servlet API 2.1, with no replacement.   |
|   | This method was originally defined to return an Enumeration of all the servlet names known to this context. In this version, this method always returns an empty Enumeration and remains only to preserve binary compatibility. This method will be permanently removed in a future version of the Java Servlet API. |
| ServletRegistration   | <pre>getServletRegistration(java.lang.String servletName)</pre>  |
|   | Gets the ServletRegistration corresponding to the servlet with the given servletName.  |
| <pre>java.util.Map<java.lang.string,?< td=""><td>Gets a (possibly empty) Map of the ServletRegistration objects (keyed by servlet name) corresponding to all servlets registered with this ServletContext.</td></java.lang.string,?<></pre> | Gets a (possibly empty) Map of the ServletRegistration objects (keyed by servlet name) corresponding to all servlets registered with this ServletContext.  |
| java.util.Enumeration< <u>Servlet</u> >   | Deprecated. As of Java Servlet API 2.0, with no replacement.   |
|   | This method was originally defined to return an Enumeration of all the servlets known to this  |
|   | servlet context. In this version, this method always returns an empty enumeration and remains  |
|   | only to preserve binary compatibility. This method will be permanently removed in a future version of the Java Servlet API.  |
| SessionCookieConfig   | getSessionCookieConfig()   |
|   | Gets the SessionCookieConfig object through which various properties of the session tracking cookies created on behalf of this ServletContext may be configured.   |
| void  | log(java.lang.Exception exception, java.lang.String msg)   |
|   | <b>Deprecated.</b> As of Java Servlet API 2.1, use <u>log(String message, Throwable</u> throwable) instead.  |
|   | This method was originally defined to write an exception's stack trace and an explanatory error message to the servlet log file.   |
| void  | log(java.lang.String msg) Writes the specified message to a servlet log file, usually an event log.  |
| void  | log(java.lang.String message, java.lang.Throwable throwable) Writes an explanatory message and a stack trace for a given Throwable exception to the servlet log file.  |
| void  | Removes the attribute with the given name from this ServletContext.  |
| void  | Binds an object to a given attribute name in this ServletContext.  |
| boolean   | SetSinitParameter (java.lang.String name, java.lang.String value)  Sets the context initialization parameter with the given name and value on this  ServletContext.  |
| void  | SetSessionTrackingModes         (java.util.Set<         SessionTrackingMode>         sessionTrackingModes)           Sets the session tracking modes that are to become effective for this ServletContext.   |

# Field Detail

# **TEMPDIR**

static final java.lang.String TEMPDIR

The name of the ServletContext attribute which stores the private temporary directory (of type java.io.File) provided by the servlet container for the ServletContext

See Also:

Constant Field Values

# ORDERED\_LIBS

static final java.lang.String ORDERED\_LIBS

The name of the ServletContext attribute whose value (of type java.util.List<java.lang.String>) contains the list of names of JAR files in web-INF/lib ordered by their web fragment names (with possible exclusions if <absolute-ordering> without any <others/> is being used), or null if no absolute or relative ordering has been specified

#### See Also:

**Constant Field Values** 

# **Method Detail**

### getContextPath

java.lang.String getContextPath()

Returns the context path of the web application.

The context path is the portion of the request URI that is used to select the context of the request. The context path always comes first in a request URI. The path starts with a / character but does not end with a / character. For servlets in the default (root) context, this method returns "".

It is possible that a servlet container may match a context by more than one context path. In such cases the <a href="httpServletRequest.getContextPath"><u>HttpServletRequest.getContextPath()</u></a> will return the actual context path used by the request and it may differ from the path returned by this method. The context path returned by this method should be considered as the prime or preferred context path of the application.

#### **Returns:**

The context path of the web application, or "" for the default (root) context

#### Since:

Servlet 2.5

#### See Also:

HttpServletRequest.getContextPath()

#### getContext

ServletContext getContext(java.lang.String uripath)

Returns a ServletContext object that corresponds to a specified URL on the server.

This method allows servlets to gain access to the context for various parts of the server, and as needed obtain RequestDispatcher objects from the context. The given path must be begin with /, is interpreted relative to the server's document root and is matched against the context roots of other web applications hosted on this container.

In a security conscious environment, the servlet container may return null for a given URL.

### **Parameters:**

uripath - a String specifying the context path of another web application in the container.

#### Returns

the ServletContext object that corresponds to the named URL, or null if either none exists or the container wishes to restrict this access.

#### See Also:

RequestDispatcher

#### getMajorVersion

int getMajorVersion()

Returns the major version of the Servlet API that this servlet container supports. All implementations that comply with Version 3.0 must have this method return the integer 3.

#### **Returns:**

3

#### getMinorVersion

int getMinorVersion()

Returns the minor version of the Servlet API that this servlet container supports. All implementations that comply with Version 3.0 must

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have this method return the integer 0.

#### **Returns:**

0

### getEffectiveMajorVersion

```
int getEffectiveMajorVersion()
```

Gets the major version of the Servlet specification that the application represented by this ServletContext is based on.

The value returned may be different from getMajorVersion(), which returns the major version of the Servlet specification supported by
the Servlet container.

#### **Returns:**

the major version of the Servlet specification that the application represented by this ServletContext is based on

#### Throws:

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

#### Since:

Servlet 3.0

#### getEffectiveMinorVersion

```
int getEffectiveMinorVersion()
```

Gets the minor version of the Servlet specification that the application represented by this ServletContext is based on.

The value returned may be different from getMinorVersion(), which returns the minor version of the Servlet specification supported by
the Servlet container.

#### **Returns:**

the minor version of the Servlet specification that the application xrepresented by this ServletContext is based on

#### Throws:

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

#### Since:

Servlet 3.0

# getMimeType

```
java.lang.String getMimeType(java.lang.String file)
```

Returns the MIME type of the specified file, or null if the MIME type is not known. The MIME type is determined by the configuration of the servlet container, and may be specified in a web application deployment descriptor. Common MIME types include text/html and image/gif.

#### **Parameters:**

file - a String specifying the name of a file

#### Returns

a string specifying the file's MIME type

#### getResourcePaths

```
java.util.Set<java.lang.String> getResourcePaths(java.lang.String path)
```

Returns a directory-like listing of all the paths to resources within the web application whose longest sub-path matches the supplied path argument.

Paths indicating subdirectory paths end with a /.

The returned paths are all relative to the root of the web application, or relative to the /META-INF/resources directory of a JAR file inside the web application's /WEB-INF/lib directory, and have a leading /.

For example, for a web application containing:

```
/welcome.html
```

```
/catalog/index.html
/catalog/products.html
/catalog/offers/books.html
/catalog/offers/music.html
/catalog/offers/music.html
/customer/login.jsp
/WEB-INF/web.xml
/WEB-INF/classes/com.example.OrderServlet.class
/WEB-INF/lib/catalog.jar!/META-INF/resources/catalog/moreOffers/books.html

getResourcePaths("/") would return {"/welcome.html", "/catalog/", "/customer/", "/WEB-INF/"}, and
getResourcePaths("/catalog/") would return {"/catalog/index.html", "/catalog/products.html", "/catalog/offers/",
"/catalog/moreOffers/"}.
```

#### **Parameters:**

path - the partial path used to match the resources, which must start with a /

#### **Returns:**

a Set containing the directory listing, or null if there are no resources in the web application whose path begins with the supplied path.

#### Since:

Servlet 2.3

#### getResource

Returns a URL to the resource that is mapped to the given path.

The path must begin with a / and is interpreted as relative to the current context root, or relative to the /META-INF/resources directory of a JAR file inside the web application's /WEB-INF/lib directory. This method will first search the document root of the web application for the requested resource, before searching any of the JAR files inside /WEB-INF/lib. The order in which the JAR files inside /WEB-INF/lib are searched is undefined.

This method allows the servlet container to make a resource available to servlets from any source. Resources can be located on a local or remote file system, in a database, or in a .war file.

The servlet container must implement the URL handlers and URLConnection objects that are necessary to access the resource.

This method returns null if no resource is mapped to the pathname.

Some containers may allow writing to the URL returned by this method using the methods of the URL class.

The resource content is returned directly, so be aware that requesting a .jsp page returns the JSP source code. Use a RequestDispatcher instead to include results of an execution.

This method has a different purpose than <code>java.lang.Class.getResource</code>, which looks up resources based on a class loader. This method does not use class loaders.

#### Parameters:

path - a String specifying the path to the resource

#### Returns

the resource located at the named path, or null if there is no resource at that path

#### Throws:

java.net.MalformedURLException - if the pathname is not given in the correct form

### getResourceAsStream

```
java.io.InputStream getResourceAsStream(java.lang.String path)
```

Returns the resource located at the named path as an InputStream object.

The data in the InputStream can be of any type or length. The path must be specified according to the rules given in getResource. This method returns null if no resource exists at the specified path.

Meta-information such as content length and content type that is available via getResource method is lost when using this method.

The servlet container must implement the URL handlers and URLConnection objects necessary to access the resource.

This method is different from java.lang.Class.getResourceAsStream, which uses a class loader. This method allows servlet containers to make a resource available to a servlet from any location, without using a class loader.

### Parameters:

path - a String specifying the path to the resource

#### **Returns:**

the InputStream returned to the servlet, or null if no resource exists at the specified path

## getRequestDispatcher

RequestDispatcher getRequestDispatcher(java.lang.String path)

Returns a RequestDispatcher object that acts as a wrapper for the resource located at the given path. A RequestDispatcher object can be used to forward a request to the resource or to include the resource in a response. The resource can be dynamic or static.

The pathname must begin with a / and is interpreted as relative to the current context root. Use getContext to obtain a RequestDispatcher for resources in foreign contexts.

This method returns null if the ServletContext cannot return a RequestDispatcher.

#### **Parameters:**

path - a String specifying the pathname to the resource

#### **Returns:**

a RequestDispatcher object that acts as a wrapper for the resource at the specified path, or null if the ServletContext cannot return a RequestDispatcher

#### See Also:

RequestDispatcher, ServletContext#getContext

#### getNamedDispatcher

RequestDispatcher getNamedDispatcher(java.lang.String name)

Returns a RequestDispatcher object that acts as a wrapper for the named servlet.

Servlets (and JSP pages also) may be given names via server administration or via a web application deployment descriptor. A servlet instance can determine its name using ServletConfig#getServletName.

This method returns null if the ServletContext cannot return a RequestDispatcher for any reason.

#### **Parameters:**

name - a String specifying the name of a servlet to wrap

#### **Returns:**

a RequestDispatcher object that acts as a wrapper for the named servlet, or null if the ServletContext cannot return a RequestDispatcher

#### See Also:

 ${\tt RequestDispatcher, ServletContext \#getContext, ServletConfig \#getServletName} \\$ 

# getServlet

```
<u>Servlet</u> getServlet(java.lang.String name) throws <u>ServletException</u>
```

Deprecated. As of Java Servlet API 2.1, with no direct replacement.

This method was originally defined to retrieve a servlet from a ServletContext. In this version, this method always returns null and remains only to preserve binary compatibility. This method will be permanently removed in a future version of the Java Servlet API.

In lieu of this method, servlets can share information using the ServletContext class and can perform shared business logic by invoking methods on common non-servlet classes.

#### Throws:

ServletException

# getServlets

```
java.util.Enumeration<Servlet> getServlets()
```

Deprecated. As of Java Servlet API 2.0, with no replacement.

This method was originally defined to return an Enumeration of all the servlets known to this servlet context. In this version, this method always returns an empty enumeration and remains only to preserve binary compatibility. This method will be permanently removed in a future version of the Java Servlet API.

## getServletNames

java.util.Enumeration<java.lang.String> getServletNames()

Deprecated. As of Java Servlet API 2.1, with no replacement.

This method was originally defined to return an Enumeration of all the servlet names known to this context. In this version, this method always returns an empty Enumeration and remains only to preserve binary compatibility. This method will be permanently removed in a future version of the Java Servlet API.

## log

```
void log(java.lang.String msg)
```

Writes the specified message to a servlet log file, usually an event log. The name and type of the servlet log file is specific to the servlet container.

#### **Parameters:**

 ${\tt msg}$  - a  ${\tt String}$  specifying the message to be written to the log file

# log

Deprecated. As of Java Servlet API 2.1, use <a href="log(String message">log(String message</a>, Throwable throwable) instead.

This method was originally defined to write an exception's stack trace and an explanatory error message to the servlet log file.

#### log

Writes an explanatory message and a stack trace for a given Throwable exception to the servlet log file. The name and type of the servlet log file is specific to the servlet container, usually an event log.

#### **Parameters:**

 ${\tt message-a\ String\ that\ describes\ the\ error\ or\ exception}$   ${\tt throwable-the\ Throwable\ error\ or\ exception}$ 

#### getRealPath

```
java.lang.String getRealPath(java.lang.String path)
```

Gets the *real* path corresponding to the given *virtual* path.

For example, if path is equal to /index.html, this method will return the absolute file path on the server's filesystem to which a request of the form http://<host>:<port>/<contextPath>/index.html would be mapped, where <contextPath> corresponds to the context path of this ServletContext.

The real path returned will be in a form appropriate to the computer and operating system on which the servlet container is running, including the proper path separators.

Resources inside the /META-INF/resources directories of JAR files bundled in the application's /WEB-INF/lib directory must be considered only if the container has unpacked them from their containing JAR file, in which case the path to the unpacked location must be returned.

This method returns null if the servlet container is unable to translate the given virtual path to a real path.

#### **Parameters:**

path - the virtual path to be translated to a real path

#### Returns

the real path, or null if the translation cannot be performed

# getServerInfo

```
java.lang.String getServerInfo()
```

Returns the name and version of the servlet container on which the servlet is running.

The form of the returned string is *servername/versionnumber*. For example, the JavaServer Web Development Kit may return the string JavaServer Web Dev Kit/1.0.

The servlet container may return other optional information after the primary string in parentheses, for example, JavaServer Web Dev Kit/1.0 (JDK 1.1.6; Windows NT 4.0 x86).

#### **Returns:**

a String containing at least the servlet container name and version number

## getInitParameter

```
java.lang.String getInitParameter(java.lang.String name)
```

Returns a String containing the value of the named context-wide initialization parameter, or null if the parameter does not exist.

This method can make available configuration information useful to an entire web application. For example, it can provide a webmaster's email address or the name of a system that holds critical data.

#### **Parameters:**

name - a String containing the name of the parameter whose value is requested

#### **Returns:**

a String containing at least the servlet container name and version number

#### See Also:

ServletConfig#getInitParameter

# getInitParameterNames

```
java.util.Enumeration<java.lang.String> getInitParameterNames()
```

Returns the names of the context's initialization parameters as an Enumeration of String objects, or an empty Enumeration if the context has no initialization parameters.

#### **Returns:**

an Enumeration of String objects containing the names of the context's initialization parameters

#### See Also:

ServletConfig#getInitParameter

# setInitParameter

```
boolean setInitParameter(java.lang.String name, java.lang.String value)
```

Sets the context initialization parameter with the given name and value on this ServletContext.

#### Parameters:

name - the name of the context initialization parameter to set value - the value of the context initialization parameter to set

# **Returns:**

true if the context initialization parameter with the given name and value was set successfully on this ServletContext, and false if it was not set because this ServletContext already contains a context initialization parameter with a matching name

#### Throws:

IllegalStateException - if this ServletContext has already been initialized
UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized
method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with
WebListener

# Since:

Servlet 3.0

#### getAttribute

```
java.lang.Object getAttribute(java.lang.String name)
```

Returns the servlet container attribute with the given name, or null if there is no attribute by that name.

An attribute allows a servlet container to give the servlet additional information not already provided by this interface. See your server documentation for information about its attributes. A list of supported attributes can be retrieved using getAttributeNames.

The attribute is returned as a java.lang.Object or some subclass.

Attribute names should follow the same convention as package names. The Java Servlet API specification reserves names matching java.\*, javax.\*, and sun.\*.

#### **Parameters:**

name - a String specifying the name of the attribute

#### Returns:

an object containing the value of the attribute, or null if no attribute exists matching the given name

#### See Also:

ServletContext#getAttributeNames

## getAttributeNames

```
java.util.Enumeration<java.lang.String> getAttributeNames()
```

Returns an Enumeration containing the attribute names available within this ServletContext.

Use the getAttribute(java.lang.String) method with an attribute name to get the value of an attribute.

#### Returns:

an Enumeration of attribute names

#### See Also:

getAttribute(java.lang.String)

#### setAttribute

Binds an object to a given attribute name in this ServletContext. If the name specified is already used for an attribute, this method will replace the attribute with the new to the new attribute.

If listeners are configured on the ServletContext the container notifies them accordingly.

If a null value is passed, the effect is the same as calling  ${\tt removeAttribute()}$ .

Attribute names should follow the same convention as package names. The Java Servlet API specification reserves names matching java.\*, javax.\*, and sun.\*.

#### Parameters:

name - a String specifying the name of the attribute object - an Object representing the attribute to be bound

#### removeAttribute

```
void removeAttribute(java.lang.String name)
```

Removes the attribute with the given name from this ServletContext. After removal, subsequent calls to <a href="mailto:getAttribute">getAttribute</a>(java.lang.String) to retrieve the attribute's value will return null.

If listeners are configured on the ServletContext the container notifies them accordingly.

#### **Parameters:**

name - a String specifying the name of the attribute to be removed

# getServletContextName

```
java.lang.String getServletContextName()
```

Returns the name of this web application corresponding to this ServletContext as specified in the deployment descriptor for this web application by the display-name element.

#### **Returns:**

The name of the web application or null if no name has been declared in the deployment descriptor.

# Since:

Servlet 2.3

#### addServlet

```
\frac{Servlet Registration.Dynamic}{add Servlet (java.lang.String servlet Name, java.lang.String className)}
```

Adds the servlet with the given name and class name to this servlet context.

The registered servlet may be further configured via the returned ServletRegistration object.

The specified className will be loaded using the classloader associated with the application represented by this ServletContext.

If this ServletContext already contains a preliminary ServletRegistration for a servlet with the given servletName, it will be completed (by assigning the given className to it) and returned.

This method introspects the class with the given className for the ServletSecurity, MultipartConfig,

javax.annotation.security.RunAs, and javax.annotation.security.DeclareRoles annotations. In addition, this method supports resource injection if the class with the given className represents a Managed Bean. See the Java EE platform and JSR 299 specifications for additional details about Managed Beans and resource injection.

#### **Parameters:**

```
{\tt servletName - the \ name \ of \ the \ servlet} {\tt className - the \ fully \ qualified \ class \ name \ of \ the \ servlet}
```

## **Returns:**

a ServletRegistration object that may be used to further configure the registered servlet, or null if this ServletContext already contains a complete ServletRegistration for a servlet with the given servletName

#### Throws:

```
IllegalStateException - if this ServletContext has already been initialized UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener
```

#### Since:

Servlet 3.0

#### addServlet

```
\underline{\underline{\mathtt{ServletRegistration.Dynamic}}} \ \ \mathbf{addServlet} ( \ \mathtt{java.lang.String} \ \ \mathtt{servletName}, \\ \underline{\mathtt{Servlet} \ \ \mathtt{servlet}} )
```

Registers the given servlet instance with this ServletContext under the given servletName.

The registered servlet may be further configured via the returned ServletRegistration object.

If this ServletContext already contains a preliminary ServletRegistration for a servlet with the given servletName, it will be completed (by assigning the class name of the given servlet instance to it) and returned.

#### **Parameters:**

```
servletName - the name of the servlet
servlet - the servlet instance to register
```

#### Returns

a ServletRegistration object that may be used to further configure the given servlet, or null if this ServletContext already contains a complete ServletRegistration for a servlet with the given servletName or if the same servlet instance has already been registered with this or another ServletContext in the same container

#### Throws

```
{\tt IllegalStateException - if this ServletContext \ has already been initialized} \\ {\tt UnsupportedOperationException - if this ServletContext \ was passed to the ServletContextListener \# contextInitialized method of a {\tt ServletContextListener \ that \ was neither declared \ in web.xml \ or web-fragment.xml, nor annotated \ with the property of the {\tt Manufacture} \ and {\tt Manufacture} \ and
```

IllegalArgumentException - if the given servlet instance implements SingleThreadModel

#### Since:

Servlet 3.0

#### addServlet

```
<u>ServletRegistration.Dynamic</u> addServlet(java.lang.String servletName, java.lang.Class<? extends <u>Servlet</u>> servletClass)
```

Adds the servlet with the given name and class type to this servlet context.

The registered servlet may be further configured via the returned ServletRegistration object.

If this ServletContext already contains a preliminary ServletRegistration for a servlet with the given servletName, it will be completed

(by assigning the name of the given servletClass to it) and returned.

This method introspects the given servletClass for the <a href="ServletSecurity">ServletClass</a> for the <a href="ServletSecurity">ServletClass</a>, <a href="Mailto:javax.annotation.security">javax.annotation.security</a>. <a href="DeclareRoles">DeclareRoles</a> annotations. In addition, this method supports resource injection if the given servletClass represents a Managed Bean. See the Java EE platform and JSR 299 specifications for additional details about Managed Beans and resource injection.

#### **Parameters:**

servletName - the name of the servlet
servletClass - the class object from which the servlet will be instantiated

#### **Returns:**

a ServletRegistration object that may be used to further configure the registered servlet, or null if this ServletContext already contains a complete ServletRegistration for the given servletName

#### Throws:

IllegalStateException - if this ServletContext has already been initialized
UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized
method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with

#### Since:

Servlet 3.0

WebListener

#### createServlet

Instantiates the given Servlet class.

The returned Servlet instance may be further customized before it is registered with this ServletContext via a call to addServlet(String,Servlet).

The given Servlet class must define a zero argument constructor, which is used to instantiate it.

This method introspects the given clazz for the following annotations: <a href="ServletSecurity">ServletSecurity</a>, <a href="MultipartConfig">MultipartConfig</a>, <a href="javax.annotation.security">javax.annotation.security</a>. <a href="Java">PoeclareRoles</a>. In addition, this method supports resource injection if the given clazz represents a Managed Bean. See the Java EE platform and JSR 299 specifications for additional details about Managed Beans and resource injection.

#### **Parameters:**

clazz - the Servlet class to instantiate

# **Returns:**

the new Servlet instance

#### Throws:

ServletException - if the given clazz fails to be instantiated

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

#### Since:

Servlet 3.0

# getServletRegistration

 $\underline{\texttt{ServletRegistration}} \ \ \textbf{getServletRegistration} \ (\texttt{java.lang.String} \ \ \texttt{servletName})$ 

Gets the ServletRegistration corresponding to the servlet with the given  ${\tt servletName}.$ 

#### Returns:

the (complete or preliminary) ServletRegistration for the servlet with the given servletName, or null if no ServletRegistration exists under that name

#### Throws:

#### Since:

Servlet 3.0

# ${\bf get Servlet Registrations}$

 ${\tt java.util.Map<java.lang.String,?~extends~\underline{ServletRegistration}>~ \textbf{getServletRegistrations()}}$ 

Gets a (possibly empty) Map of the ServletRegistration objects (keyed by servlet name) corresponding to all servlets registered with this ServletContext.

The returned Map includes the ServletRegistration objects corresponding to all declared and annotated servlets, as well as the ServletRegistration objects corresponding to all servlets that have been added via one of the addServlet methods.

If permitted, any changes to the returned Map must not affect this ServletContext.

#### **Returns:**

Map of the (complete and preliminary) ServletRegistration objects corresponding to all servlets currently registered with this ServletContext

#### Throws:

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

#### Since:

Servlet 3.0

#### addFilter

```
FilterRegistration.Dynamic addFilter(java.lang.String filterName, java.lang.String className)
```

Adds the filter with the given name and class name to this servlet context.

The registered filter may be further configured via the returned FilterRegistration object.

The specified className will be loaded using the classloader associated with the application represented by this ServletContext.

If this ServletContext already contains a preliminary FilterRegistration for a filter with the given filterName, it will be completed (by assigning the given className to it) and returned.

This method supports resource injection if the class with the given className represents a Managed Bean. See the Java EE platform and JSR 299 specifications for additional details about Managed Beans and resource injection.

#### **Parameters:**

```
{\tt filterName - the \ name \ of \ the \ filter} \\ {\tt className - the \ fully \ qualified \ class \ name \ of \ the \ filter} \\
```

#### Returns

a FilterRegistration object that may be used to further configure the registered filter, or null if this ServletContext already contains a complete FilterRegistration for a filter with the given filterName

#### Throws:

IllegalStateException - if this ServletContext has already been initialized
UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized
method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with
WebListener

# Since:

Servlet 3.0

# addFilter

```
<u>FilterRegistration.Dynamic</u> addFilter(java.lang.String filterName, Filter filter)
```

 $Registers \ the \ given \ filter \ instance \ with \ this \ Servlet Context \ under \ the \ given \ \texttt{filterName}.$ 

 $The \ registered \ filter \ may \ be \ further \ configured \ via \ the \ returned \ \texttt{FilterRegistration} \ object.$ 

If this ServletContext already contains a preliminary FilterRegistration for a filter with the given filterName, it will be completed (by assigning the class name of the given filter instance to it) and returned.

#### **Parameters:**

```
filterName - the name of the filter filter - the filter instance to register
```

## Returns

a FilterRegistration object that may be used to further configure the given filter, or null if this ServletContext already contains a complete FilterRegistration for a filter with the given filterName or if the same filter instance has already been registered with this or another ServletContext in the same container

#### Throws:

IllegalStateException - if this ServletContext has already been initialized

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

#### Since:

Servlet 3.0

#### addFilter

Adds the filter with the given name and class type to this servlet context.

The registered filter may be further configured via the returned FilterRegistration object.

If this ServletContext already contains a preliminary FilterRegistration for a filter with the given filterName, it will be completed (by assigning the name of the given filterClass to it) and returned.

This method supports resource injection if the given filterclass represents a Managed Bean. See the Java EE platform and JSR 299 specifications for additional details about Managed Beans and resource injection.

#### **Parameters:**

filterName - the name of the filter filterClass - the class object from which the filter will be instantiated

#### **Returns:**

a FilterRegistration object that may be used to further configure the registered filter, or null if this ServletContext already contains a complete FilterRegistration for a filter with the given filterName

#### Throws:

IllegalStateException - if this ServletContext has already been initialized UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

#### Since:

Servlet 3.0

#### createFilter

Instantiates the given Filter class.

The returned Filter instance may be further customized before it is registered with this ServletContext via a call to <a href="mailto:addFilter(String,Filter">addFilter(String,Filter)</a>.

The given Filter class must define a zero argument constructor, which is used to instantiate it.

This method supports resource injection if the given clazz represents a Managed Bean. See the Java EE platform and JSR 299 specifications for additional details about Managed Beans and resource injection.

#### Parameters:

clazz - the Filter class to instantiate

# **Returns:**

the new Filter instance

#### Throws:

ServletException - if the given clazz fails to be instantiated

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

#### Since:

Servlet 3.0

# getFilterRegistration

```
\underline{\texttt{FilterRegistration}} \ \ \textbf{getFilterRegistration} (\texttt{java.lang.String} \ \ \texttt{filterName})
```

Gets the FilterRegistration corresponding to the filter with the given filterName.

#### Returns

the (complete or preliminary) FilterRegistration for the filter with the given filterName, or null if no FilterRegistration exists

under that name

#### Throws:

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

Since:

Servlet 3.0

# getFilterRegistrations

java.util.Map<java.lang.String,? extends FilterRegistration> getFilterRegistrations()

Gets a (possibly empty) Map of the FilterRegistration objects (keyed by filter name) corresponding to all filters registered with this ServletContext.

The returned Map includes the FilterRegistration objects corresponding to all declared and annotated filters, as well as the FilterRegistration objects corresponding to all filters that have been added via one of the addFilter methods.

Any changes to the returned Map must not affect this ServletContext.

#### Returns:

Map of the (complete and preliminary) FilterRegistration objects corresponding to all filters currently registered with this ServletContext

#### Throws:

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

Since:

Servlet 3.0

## getSessionCookieConfig

 $\underline{\tt SessionCookieConfig} \ \ \textbf{getSessionCookieConfig} \ (\ )$ 

Gets the SessionCookieConfig object through which various properties of the session tracking cookies created on behalf of this ServletContext may be configured.

Repeated invocations of this method will return the same SessionCookieConfig instance.

#### **Returns:**

the SessionCookieConfig object through which various properties of the session tracking cookies created on behalf of this ServletContext may be configured

#### Throws

Since:

Servlet 3.0

# set Session Tracking Modes

 $\verb|void setSessionTrackingModes| (java.util.Set < \underline{SessionTrackingMode} > sessionTrackingModes)| \\$ 

Sets the session tracking modes that are to become effective for this ServletContext.

The given sessionTrackingModes replaces any session tracking modes set by a previous invocation of this method on this ServletContext.

# Parameters:

sessionTrackingModes - the set of session tracking modes to become effective for this ServletContext

## Throws:

IllegalStateException - if this ServletContext has already been initialized

 $\label{lem:unsupportedOperationException-if this ServletContext was passed to the {\tt ServletContextListener\#contextInitialized} \\ method of a {\tt ServletContextListener} \\ \text{that was neither declared in web.xml or web-fragment.xml, nor annotated with} \\$ 

<u>WebListener</u>

IllegalArgumentException - if sessionTrackingModes specifies a combination of SessionTrackingMode.SSL with a session tracking mode other than SessionTrackingMode.SSL, or if sessionTrackingModes specifies a session tracking mode that is not supported by the servlet container

Since:

Servlet 3.0

# getDefaultSessionTrackingModes

java.util.Set<<u>SessionTrackingMode</u>> getDefaultSessionTrackingModes()

Gets the session tracking modes that are supported by default for this ServletContext.

#### **Returns:**

set of the session tracking modes supported by default for this ServletContext

#### Throws:

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

Since:

Servlet 3.0

# get Effective Session Tracking Modes

java.util.Set<<u>SessionTrackingMode</u>> getEffectiveSessionTrackingModes()

Gets the session tracking modes that are in effect for this ServletContext.

The session tracking modes in effect are those provided to setSessionTrackingModes.

By default, the session tracking modes returned by <a href="mailto:getDefaultSessionTrackingModes">getDefaultSessionTrackingModes</a> are in effect.

#### **Returns:**

set of the session tracking modes in effect for this ServletContext

#### Throws:

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

Since:

Servlet 3.0

#### addListener

void addListener(java.lang.String className)

Adds the listener with the given class name to this ServletContext.

The class with the given name will be loaded using the classloader associated with the application represented by this ServletContext, and must implement one or more of the following interfaces:

- $\bullet \ {\tt ServletContextAttributeListener} \\$
- ServletRequestListener
- ServletRequestAttributeListener
- HttpSessionListener
- HttpSessionAttributeListener

If this ServletContext was passed to ServletContainerInitializer#onStartup, then the class with the given name may also implement ServletContextListener, in addition to the interfaces listed above.

As part of this method call, the container must load the class with the specified class name to ensure that it implements one of the required interfaces.

If the class with the given name implements a listener interface whose invocation order corresponds to the declaration order (i.e., if it implements ServletRequestListener, ServletContextListener, or <a href="httpSessionListener"><u>HttpSessionListener</u></a>), then the new listener will be added to the end of the ordered list of listeners of that interface.

This method supports resource injection if the class with the given className represents a Managed Bean. See the Java EE platform and JSR 299 specifications for additional details about Managed Beans and resource injection.

#### **Parameters:**

className - the fully qualified class name of the listener

#### Throws:

IllegalArgumentException - if the class with the given name does not implement any of the above interfaces, or if it implements ServletContextListener and this ServletContext was not passed to ServletContainerInitializer#onStartup IllegalStateException - if this ServletContext has already been initialized

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UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

Since:

Servlet 3.0

#### addListener

<T extends java.util.EventListener> void addListener(T t)

Adds the given listener to this ServletContext.

The given listener must be an instance of one or more of the following interfaces:

- ServletContextAttributeListener
- ServletRequestListener
- ServletRequestAttributeListener
- HttpSessionListener
- HttpSessionAttributeListener

If this ServletContext was passed to ServletContainerInitializer#onStartup, then the given listener may also be an instance of ServletContextListener, in addition to the interfaces listed above.

If the given listener is an instance of a listener interface whose invocation order corresponds to the declaration order (i.e., if it is an instance of ServletRequestListener, ServletContextListener, or <a href="httpSessionListener">httpSessionListener</a>), then the listener will be added to the end of the ordered list of listeners of that interface.

#### **Parameters:**

t - the listener to be added

#### Throws:

IllegalArgumentException - if the given listener is not an instance of any of the above interfaces, or if it is an instance of ServletContextListener and this ServletContext was not passed to ServletContainerInitializer#onStartup IllegalStateException - if this ServletContext has already been initialized UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with

Since:

Servlet 3.0

WebListener

## addListener

void addListener(java.lang.Class<? extends java.util.EventListener> listenerClass)

Adds a listener of the given class type to this ServletContext.

The given listenerClass must implement one or more of the following interfaces:

- ServletContextAttributeListener
- ServletRequestListener
- $\bullet \ {\tt ServletRequestAttributeListener} \\$
- HttpSessionListener
- HttpSessionAttributeListener

If this ServletContext was passed to ServletContainerInitializer#onStartup, then the given listenerClass may also implement ServletContextListener, in addition to the interfaces listed above.

If the given listenerClass implements a listener interface whose invocation order corresponds to the declaration order (i.e., if it implements ServletRequestListener, ServletContextListener, or <a href="httpSessionListener"><u>HttpSessionListener</u></a>), then the new listener will be added to the end of the ordered list of listeners of that interface.

This method supports resource injection if the given listenerClass represents a Managed Bean. See the Java EE platform and JSR 299 specifications for additional details about Managed Beans and resource injection.

# Parameters:

listenerClass - the listener class to be instantiated

#### Throws:

IllegalArgumentException - if the given listenerClass does not implement any of the above interfaces, or if it implements ServletContextListener and this ServletContext was not passed to ServletContainerInitializer#onStartup IllegalStateException - if this ServletContext has already been initialized UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

Since:

Servlet 3.0

#### createListener

Instantiates the given EventListener class.

The specified EventListener class must implement at least one of the ServletContextListener, ServletContextAttributeListener, ServletRequestListener, ServletRequestAttributeListener, <a href="httpSessionListener"><u>HttpSessionListener</u></a>, or <a href="httpSessionAttributeListener"><u>HttpSessionListener</u></a>, or <a href="httpSessionAttributeListener"><u>HttpSessionAttributeListener</u></a>, or <a href="httpSessionAttr

The returned EventListener instance may be further customized before it is registered with this ServletContext via a call to <a href="mailto:addListener(EventListener">addListener(EventListener)</a>.

The given EventListener class must define a zero argument constructor, which is used to instantiate it.

This method supports resource injection if the given clazz represents a Managed Bean. See the Java EE platform and JSR 299 specifications for additional details about Managed Beans and resource injection.

#### Parameters:

clazz - the EventListener class to instantiate

#### Returns:

the new EventListener instance

#### Throws:

ServletException - if the given clazz fails to be instantiated

UnsupportedOperationException - if this ServletContext was passed to the

ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

IllegalArgumentException - if the specified EventListener class does not implement any of the

ServletContextListener, ServletContextAttributeListener, ServletRequestListener, ServletRequestAttributeListener, HttpSessionListener, or HttpSessionAttributeListener interfaces.

Since:

Servlet 3.0

#### getJspConfigDescriptor

#### JspConfigDescriptor getJspConfigDescriptor()

Gets the <jsp-config> related configuration that was aggregated from the web.xml and web-fragment.xml descriptor files of the web application represented by this ServletContext.

#### Returns:

the <jsp-config> related configuration that was aggregated from the web.xml and web-fragment.xml descriptor files of the web application represented by this ServletContext, or null if no such configuration exists

## Throws:

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with WebListener

#### Since:

Servlet 3.0

#### See Also:

JspConfigDescriptor

# getClassLoader

java.lang.ClassLoader getClassLoader()

Gets the class loader of the web application represented by this ServletContext.

If a security manager exists, and the caller's class loader is not the same as, or an ancestor of the requested class loader, then the security manager's checkPermission method is called with a RuntimePermission("getClassLoader") permission to check whether access to the requested class loader should be

#### Returns:

the class loader of the web application represented by this ServletContext

#### Throws:

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with <a href="WebListener">WebListener</a>

SecurityException - if a security manager denies access to the requested class loader

#### Since:

Servlet 3.0

#### declareRoles

void declareRoles(java.lang.String... roleNames)

Declares role names that are tested using isUserInRole.

Roles that are implicitly declared as a result of their use within the  $\underline{\text{setServletSecurity}}$  or  $\underline{\text{setRunAsRole}}$  methods of the ServletRegistration interface need not be declared.

#### Parameters:

roleNames - the role names being declared

# ServletContext (Java EE 6)

#### Throws:

UnsupportedOperationException - if this ServletContext was passed to the ServletContextListener#contextInitialized method of a ServletContextListener that was neither declared in web.xml or web-fragment.xml, nor annotated with <a href="WebListener">WebListener</a>
IllegalArgumentException - if any of the argument roleNames is null or the empty string IllegalStateException - if the ServletContext has already been initialized

Since:

Servlet 3.0

#### Overview Package Class Tree Deprecated Index Help

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SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

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# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

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DETAIL: FIELD | CONSTR | METHOD

# javax.servlet

# Class ServletContextAttributeEvent

# **All Implemented Interfaces:**

java.io.Serializable

```
public class ServletContextAttributeEvent
extends ServletContextEvent
```

Event class for notifications about changes to the attributes of the ServletContext of a web application.

#### Since:

Servlet 2.3

# See Also:

ServletContextAttributeListener, Serialized Form

# Field Summary

# Fields inherited from class java.util.EventObject

source

# **Constructor Summary**

<u>ServletContextAttributeEvent</u>(ServletContext source, java.lang.String name, java.lang.Object value)

Constructs a ServletContextAttributeEvent from the given ServletContext, attribute name, and attribute value.

# Method Summary | java.lang.String | getName() | | Gets the name of the ServletContext attribute that changed. | java.lang.Object | getValue() | | Gets the value of the ServletContext attribute that changed.

# Methods inherited from class javax.servlet.<u>ServletContextEvent</u> getServletContext

# Methods inherited from class java.util.EventObject

getSource, toString

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

# **Constructor Detail**

# **ServletContextAttributeEvent**

Constructs a ServletContextAttributeEvent from the given ServletContext, attribute name, and attribute value.

# **Parameters:**

source - the ServletContext whose attribute changed
name - the name of the ServletContext attribute that changed
value - the value of the ServletContext attribute that changed

# **Method Detail**

# getName

```
public java.lang.String getName()
```

Gets the name of the ServletContext attribute that changed.

#### **Returns:**

the name of the ServletContext attribute that changed

# getValue

```
public java.lang.Object getValue()
```

Gets the value of the ServletContext attribute that changed.

If the attribute was added, this is the value of the attribute. If the attribute was removed, this is the value of the removed attribute. If the attribute was replaced, this is the old value of the attribute.

## **Returns:**

the value of the ServletContext attribute that changed

# Overview Package Class Tree Deprecated Index Help

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# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

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DETAIL: FIELD | CONSTR | METHOD

javax.servlet

# Interface ServletContextAttributeListener

# **All Superinterfaces:**

java.util.EventListener

public interface ServletContextAttributeListener
extends java.util.EventListener

Interface for receiving notification events about ServletContext attribute changes.

In order to receive these notification events, the implementation class must be either declared in the deployment descriptor of the web application, annotated with <u>WebListener</u>, or registered via one of the addListener methods defined on ServletContext.

The order in which implementations of this interface are invoked is unspecified.

#### Since:

Servlet 2.3

## See Also:

ServletContextAttributeEvent

| Method Summary |  |  |
|----------------|--|--|
| void           | attributeAdded (ServletContextAttributeEvent event)  Receives notification that an attribute has been added to the ServletContext.       |  |
| void           | attributeRemoved (ServletContextAttributeEvent event)  Receives notification that an attribute has been removed from the ServletContext. |  |
| void           | pid attributeReplaced (ServletContextAttributeEvent event)   |  |

# **Method Detail**

# attributeAdded

void attributeAdded(ServletContextAttributeEvent event)

Receives notification that an attribute has been added to the ServletContext.

## **Parameters:**

event - the ServletContextAttributeEvent containing the ServletContext to which the attribute was added, along with the attribute name and value

# attributeRemoved

void attributeRemoved(ServletContextAttributeEvent event)

Receives notification that an attribute has been removed from the ServletContext.

# **Parameters:**

event - the ServletContextAttributeEvent containing the ServletContext from which the attribute was removed, along with the attribute name and value

# attributeReplaced

void attributeReplaced(ServletContextAttributeEvent event)

# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

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DETAIL: FIELD | CONSTR | METHOD

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# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS SUMMARY: NESTED | FIELD | CONSTR | METHOD FRAMES NO FRAMES All Classes DETAIL: FIELD | CONSTR | METHOD

# javax.servlet

# Class ServletContextEvent

java.lang.Object └ java.util.EventObject 

# **All Implemented Interfaces:**

java.io.Serializable

# **Direct Known Subclasses:**

ServletContextAttributeEvent

public class ServletContextEvent extends java.util.EventObject

This is the event class for notifications about changes to the servlet context of a web application.

Since:

Servlet 2.3

See Also:

ServletContextListener, Serialized Form

# Field Summary

# Fields inherited from class java.util.EventObject

source

# **Constructor Summary**

ServletContextEvent(ServletContext source)

Construct a ServletContextEvent from the given context.

# **Method Summary**

ServletContext()

Return the ServletContext that changed.

# Methods inherited from class java.util.EventObject

getSource, toString

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

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# **Constructor Detail**

# ServletContextEvent

public ServletContextEvent(ServletContext source)

Construct a ServletContextEvent from the given context.

# **Parameters:**

source - - the ServletContext that is sending the event.

# **Method Detail**

# getServletContext

public ServletContext getServletContext()

Return the ServletContext that changed.

# **Returns:**

the ServletContext that sent the event.

# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

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# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS SUMMARY: NESTED | FIELD | CONSTR | METHOD FRAMES NO FRAMES All Classes DETAIL: FIELD | CONSTR | METHOD

# javax.servlet

# Class ServletException

```
java.lang.Object
 └ java.lang.Throwable
     └ java.lang.Exception
          □ javax.servlet.ServletException
```

# **All Implemented Interfaces:**

java.io.Serializable

#### **Direct Known Subclasses:**

UnavailableException

```
public class ServletException
extends java.lang.Exception
```

Defines a general exception a servlet can throw when it encounters difficulty.

# **Author:**

Various

#### See Also:

Serialized Form

# **Constructor Summary**

ServletException()

Constructs a new servlet exception.

ServletException(java.lang.String message)

Constructs a new servlet exception with the specified message.

ServletException (java.lang.String message, java.lang.Throwable rootCause)

Constructs a new servlet exception when the servlet needs to throw an exception and include a message about the "root cause" exception that interfered with its normal operation, including a description message.

```
ServletException(java.lang.Throwable rootCause)
```

Constructs a new servlet exception when the servlet needs to throw an exception and include a message about the "root cause" exception that interfered with its normal operation.

# **Method Summary**

java.lang.Throwable | getRootCause()

Returns the exception that caused this servlet exception.

# Methods inherited from class java.lang.Throwable

1 de 3 15/05/2014 05:07 p.m. fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause,
printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

# **Constructor Detail**

# ServletException

```
public ServletException()
```

Constructs a new servlet exception.

# ServletException

```
public ServletException(java.lang.String message)
```

Constructs a new servlet exception with the specified message. The message can be written to the server log and/or displayed for the user.

#### **Parameters:**

message - a String specifying the text of the exception message

# ServletException

Constructs a new servlet exception when the servlet needs to throw an exception and include a message about the "root cause" exception that interfered with its normal operation, including a description message.

# **Parameters:**

message - a String containing the text of the exception message rootCause - the Throwable exception that interfered with the servlet's normal operation, making this servlet exception necessary

# ServletException

```
public ServletException(java.lang.Throwable rootCause)
```

Constructs a new servlet exception when the servlet needs to throw an exception and include a message about the "root cause" exception that interfered with its normal operation. The exception's message is based on the localized message of the underlying exception.

This method calls the getLocalizedMessage method on the Throwable exception to get a localized exception message. When subclassing ServletException, this method can be overridden to create

2 de 3 15/05/2014 05:07 p.m.

an exception message designed for a specific locale.

# **Parameters:**

rootCause - the Throwable exception that interfered with the servlet's normal operation, making the servlet exception necessary

# **Method Detail**

# getRootCause

public java.lang.Throwable getRootCause()

Returns the exception that caused this servlet exception.

# **Returns:**

the Throwable that caused this servlet exception

# Overview Package Class Tree Deprecated Index Help

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PREV CLASS NEXT CLASS

SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes DETAIL: FIELD | CONSTR | METHOD

# javax.servlet

# Class ServletInputStream

java.lang.Object └ java.io.InputStream 

# **All Implemented Interfaces:**

java.io.Closeable

public abstract class ServletInputStream extends java.io.InputStream

Provides an input stream for reading binary data from a client request, including an efficient readLine method for reading data one line at a time. With some protocols, such as HTTP POST and PUT, a ServletInputStream object can be used to read data sent from the client.

A ServletInputStream object is normally retrieved via the ServletRequest#getInputStream method.

This is an abstract class that a servlet container implements. Subclasses of this class must implement the java.io.InputStream.read() method.

#### **Author:**

Various

### See Also:

ServletRequest

# **Constructor Summary**

protected | ServletInputStream()

Does nothing, because this is an abstract class.

# **Method Summary**

int readLine(byte[] b, int off, int len)

Reads the input stream, one line at a time.

# Methods inherited from class java.io.InputStream

available, close, mark, markSupported, read, read, read, reset, skip

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

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# **Constructor Detail**

# ServletInputStream

protected ServletInputStream()

Does nothing, because this is an abstract class.

# **Method Detail**

# readLine

Reads the input stream, one line at a time. Starting at an offset, reads bytes into an array, until it reads a certain number of bytes or reaches a newline character, which it reads into the array as well.

This method returns -1 if it reaches the end of the input stream before reading the maximum number of bytes.

# **Parameters:**

```
b - an array of bytes into which data is read
off - an integer specifying the character at which this method begins reading
len - an integer specifying the maximum number of bytes to read
```

# **Returns:**

an integer specifying the actual number of bytes read, or -1 if the end of the stream is reached **Throws:** 

java.io.IOException - if an input or output exception has occurred

# Overview Package Class Tree Deprecated Index Help

```
    PREV CLASS
    NO FRAMES
    All Classes

    SUMMARY: NESTED | FIELD | CONSTR | METHOD
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```

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# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS SUMMARY: NESTED | FIELD | CONSTR | METHOD FRAMES NO FRAMES All Classes DETAIL: FIELD | CONSTR | METHOD

# javax.servlet

# Class ServletOutputStream

```
java.lang.Object
 └ java.io.OutputStream
     └ javax.servlet.ServletOutputStream
```

# **All Implemented Interfaces:**

java.io.Closeable, java.io.Flushable

```
public abstract class ServletOutputStream
extends java.io.OutputStream
```

Provides an output stream for sending binary data to the client. A ServletOutputStream object is normally retrieved via the ServletResponse#getOutputStream method.

This is an abstract class that the servlet container implements. Subclasses of this class must implement the java.io.OutputStream.write(int) method.

#### **Author:**

Various

# See Also:

ServletResponse

# **Constructor Summary**

protected | ServletOutputStream()

Does nothing, because this is an abstract class.

# Method Summary

|      | Writes a boolean value to the client, with no carriage return-line feed (CRLF) character at the end. |
|------|--|
| void | Writes a character to the client, with no carriage return-line feed (CRLF) at the end.               |
| void | Writes a double value to the client, with no carriage return-line feed (CRLF) at the end.            |
| void | Writes a float value to the client, with no carriage return-line feed (CRLF) at the end.             |
| void | Writes an int to the client, with no carriage return-line feed (CRLF) at the end.                    |
| void | Writes a long value to the client, with no carriage return-line feed (CRLF) at the end.              |

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| void | <pre>print(java.lang.String s)</pre>  |  |  |
|------|---|--|--|
|      | Writes a string to the client, without a carriage return-line feed (CRLF) character at th |  |  |
|      | end.  |  |  |
| void | d println()   |  |  |
|      | Writes a carriage return-line feed (CRLF) to the client.                                  |  |  |
| void | roid println(boolean b)   |  |  |
|      | Writes a boolean value to the client, followed by a carriage return-line feed (CRLF).     |  |  |
| void | id println(char c)  |  |  |
|      | Writes a character to the client, followed by a carriage return-line feed (CRLF).         |  |  |
| void | void println(double d)  |  |  |
|      | Writes a double value to the client, followed by a carriage return-line feed (CRLF).      |  |  |
| void | id println(float f)   |  |  |
|      | Writes a float value to the client, followed by a carriage return-line feed (CRLF).       |  |  |
| void | oid println(int i)  |  |  |
|      | Writes an int to the client, followed by a carriage return-line feed (CRLF) character.    |  |  |
| void | <pre>println(long 1)</pre>  |  |  |
|      | Writes a long value to the client, followed by a carriage return-line feed (CRLF).        |  |  |
| void | <pre>println(java.lang.String s)</pre>  |  |  |
|      | Writes a String to the client, followed by a carriage return-line feed (CRLF).            |  |  |

# Methods inherited from class java.io.OutputStream

close, flush, write, write, write

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

# **Constructor Detail**

# ServletOutputStream

protected ServletOutputStream()

Does nothing, because this is an abstract class.

# **Method Detail**

# print

Writes a String to the client, without a carriage return-line feed (CRLF) character at the end.

# **Parameters:**

s - the String to send to the client

# **Throws:**

java.io.IOException - if an input or output exception occurred

# print

Writes a boolean value to the client, with no carriage return-line feed (CRLF) character at the end.

## **Parameters:**

b - the boolean value to send to the client

# **Throws:**

java.io.IOException - if an input or output exception occurred

# print

Writes a character to the client, with no carriage return-line feed (CRLF) at the end.

# **Parameters:**

c - the character to send to the client

#### **Throws:**

java.io.IOException - if an input or output exception occurred

# print

Writes an int to the client, with no carriage return-line feed (CRLF) at the end.

## **Parameters:**

i - the int to send to the client

# **Throws:**

java.io.IOException - if an input or output exception occurred

# print

Writes a long value to the client, with no carriage return-line feed (CRLF) at the end.

# **Parameters:**

1 - the long value to send to the client

# **Throws:**

java.io.IOException - if an input or output exception occurred

# print

Writes a float value to the client, with no carriage return-line feed (CRLF) at the end.

#### **Parameters:**

f - the float value to send to the client

## **Throws:**

java.io.IOException - if an input or output exception occurred

# print

Writes a double value to the client, with no carriage return-line feed (CRLF) at the end.

#### **Parameters:**

d - the double value to send to the client

#### **Throws:**

java.io.IOException - if an input or output exception occurred

# println

Writes a carriage return-line feed (CRLF) to the client.

#### **Throws:**

java.io.IOException - if an input or output exception occurred

# println

Writes a String to the client, followed by a carriage return-line feed (CRLF).

# **Parameters:**

s - the String to write to the client

#### **Throws:**

java.io.IOException - if an input or output exception occurred

# println

Writes a boolean value to the client, followed by a carriage return-line feed (CRLF).

# **Parameters:**

b - the boolean value to write to the client

#### Throws:

java.io.IOException - if an input or output exception occurred

# println

Writes a character to the client, followed by a carriage return-line feed (CRLF).

# **Parameters:**

c - the character to write to the client

## **Throws:**

java.io.IOException - if an input or output exception occurred

# println

Writes an int to the client, followed by a carriage return-line feed (CRLF) character.

# **Parameters:**

i - the int to write to the client

#### Throws:

java.io.IOException - if an input or output exception occurred

# println

Writes a long value to the client, followed by a carriage return-line feed (CRLF).

## **Parameters:**

1 - the long value to write to the client

# **Throws:**

java.io.IOException - if an input or output exception occurred

# println

Writes a float value to the client, followed by a carriage return-line feed (CRLF).

# **Parameters:**

f - the float value to write to the client

# **Throws:**

java.io.IOException - if an input or output exception occurred

# println

Writes a double value to the client, followed by a carriage return-line feed (CRLF).

# **Parameters:**

d - the double value to write to the client

# **Throws:**

java.io.IOException - if an input or output exception occurred

# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes

DETAIL: FIELD | CONSTR | METHOD

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# Overview Package Class Tree Deprecated Index Help

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javax.servlet

# **Interface ServletRequest**

# All Known Subinterfaces:

**HttpServletRequest** 

# **All Known Implementing Classes:**

HttpServletRequestWrapper, ServletRequestWrapper

public interface ServletRequest

Defines an object to provide client request information to a servlet. The servlet container creates a ServletRequest object and passes it as an argument to the servlet's service method.

A ServletRequest object provides data including parameter name and values, attributes, and an input stream. Interfaces that extend ServletRequest can provide additional protocol-specific data (for example, HTTP data is provided by HttpServletRequest.

#### **Author:**

Various

#### See Also:

<u>HttpServletRequest</u>

| Method Summary  |   |
|---|---|
| AsyncContext  | Gets the AsyncContext that was created or reinitialized by the most recent invocation of <pre>startAsync()</pre> or <pre>startAsync(ServletRequest, ServletResponse)</pre> on this request. |
| java.lang.Object  | Returns the value of the named attribute as an Object, or null if no attribute of the given name exists.  |
| java.util.Enumeration <java.lang.string></java.lang.string> | Returns an Enumeration containing the names of the attributes available to this request.  |
| java.lang.String  | Returns the name of the character encoding used in the body of this request.  |
| int   | Returns the length, in bytes, of the request body and made available by the input stream, or -1 if the length is not known.   |

|   | T   |
|---|---|
| java.lang.String  | Returns the MIME type of the body of the request, or null if the type is not known. |
|   |   |
| DispatcherType  | Gets the dispatcher type of this request.   |
| ServletInputStream  | <pre>getInputStream()</pre>   |
|   | Retrieves the body of the request as binary   |
|   | data using a ServletInputStream.  |
| java.lang.String  | getLocalAddr()  |
|   | Returns the Internet Protocol (IP) address of                                       |
|   | the interface on which the request was received.                                    |
| java.util.Locale  | _   |
| java. acri. zocare  | Returns the preferred Locale that the client  |
|   | will accept content in, based on the Accept-  |
|   | Language header.  |
|   |   |
| java.util.Enumeration <java.util.locale></java.util.locale>   |   |
|   | Returns an Enumeration of Locale objects  |
|   | indicating, in decreasing order starting with the                                   |
|   | preferred locale, the locales that are acceptable to                                |
|   | the client based on the Accept-Language header.                                     |
| java.lang.String  | 3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1   |
|   | Returns the host name of the Internet   |
|   | Protocol (IP) interface on which the request was                                    |
|   | received.   |
| int   | <pre>getLocalPort()</pre>   |
|   | Returns the Internet Protocol (IP) port   |
|   | number of the interface on which the request was                                    |
|   | received.   |
| java.lang.String  | <pre>getParameter(java.lang.String name)</pre>                                      |
|   | Returns the value of a request parameter as a                                       |
|   | String, or null if the parameter does not exist.                                    |
| <pre>java.util.Map<java.lang.string,java.lang.string[]></java.lang.string,java.lang.string[]></pre> | getParameterMap()   |
|   | Returns a java.util.Map of the parameters of  |
|   | this request.   |
| java.util.Enumeration <java.lang.string></java.lang.string>   | getParameterNames()   |
| java. ucii. Enumeracion java. iang. String  | Returns an Enumeration of String objects  |
|   | containing the names of the parameters contained in                                 |
|   | this request.   |
|   | _   |
| java.lang.String[]  | <u> </u>  |
|   | Returns an array of string objects containing                                       |
|   | all of the values the given request parameter has, or                               |
|   | null if the parameter does not exist.   |
| java.lang.String  |   |
|   | Returns the name and version of the protocol  |
|   | the request uses in the form  |
|   | protocol/majorVersion.minorVersion, for example,                                    |
|   | HTTP/1.1.   |
| java.io.BufferedReader  | 1   |
|   | Retrieves the body of the request as character                                      |
|   | data using a BufferedReader.  |
|   | 1   |

| 1 Ot also         | Tot Doe 1 Doth / Joseph 2 Charles (19)  |
|-------------------|---|
| java.lang.String  | petRealPath (java.lang.String path)  Deprecated. As of Version 2.1 of the Java  Servlet API, use ServletContext#getRealPath |
|                   | instead.  |
| java.lang.String  | <u> </u>  |
|                   | Returns the Internet Protocol (IP) address of the client or last proxy that sent the request.                               |
| java.lang.String  | Returns the fully qualified name of the client  |
|                   | or the last proxy that sent the request.  |
| int               | getRemotePort()   |
|                   | Returns the Internet Protocol (IP) source port of the client or last proxy that sent the request.                           |
| RequestDispatcher | <pre>getRequestDispatcher(java.lang.String path)</pre>  |
|                   | Returns a RequestDispatcher object that acts as a wrapper for the resource located at the                                   |
|                   | given path.   |
| java.lang.String  | 1 <del></del>   |
|                   | Returns the name of the scheme used to make this request, for example, http, https, or ftp.                                 |
| java.lang.String  | getServerName()   |
|                   | Returns the host name of the server to which the request was sent.  |
| int               | <pre>getServerPort()</pre>  |
|                   | Returns the port number to which the request  |
| ServletContext    | <pre>was sent. getServletContext()</pre>  |
| 501,10000110      | Gets the servlet context to which this  |
|                   | ServletRequest was last dispatched.   |
| boolean           | isAsyncStarted() Checks if this request has been put into   |
|                   | asynchronous mode.  |
| boolean           | isAsyncSupported()  |
|                   | Checks if this request supports asynchronous operation.   |
| boolean           | isSecure()  |
|                   | Returns a boolean indicating whether this   |
|                   | request was made using a secure channel, such as HTTPS.   |
| void              | removeAttribute (java.lang.String name) Removes an attribute from this request.   |
| void              | <pre>setAttribute(java.lang.String name,</pre>  |
|                   | java.lang.Object o)  Stores an attribute in this request.   |
| void              | setCharacterEncoding(java.lang.String env)  |
|                   | Overrides the name of the character encoding used in the body of this request.  |
| AsyncContext      | , ,   |
|                   | Puts this request into asynchronous mode,   |
|                   | and initializes its AsyncContext with the original  |
|                   | (unwrapped) ServletRequest and ServletResponse  |
|                   | (unwrupped) Servicirequest and serviciresponse  |

|  | objects.  |
|--|---|
|  | <pre>startAsync(ServletRequest servletRequest, ServletResponse servletResponse)</pre> |
|  | Puts this request into asynchronous mode,   |
|  | and initializes its AsyncContext with the given                                       |
|  | request and response objects.   |

# **Method Detail**

# getAttribute

```
java.lang.Object getAttribute(java.lang.String name)
```

Returns the value of the named attribute as an Object, or null if no attribute of the given name exists.

Attributes can be set two ways. The servlet container may set attributes to make available custom information about a request. For example, for requests made using HTTPS, the attribute <code>javax.servlet.request.x509Certificate</code> can be used to retrieve information on the certificate of the client. Attributes can also be set programatically using <code>ServletRequest#setAttribute</code>. This allows information to be embedded into a request before a <code>RequestDispatcher</code> call.

Attribute names should follow the same conventions as package names. This specification reserves names matching <code>java.\*</code>, <code>javax.\*</code>, and <code>sun.\*</code>.

#### **Parameters:**

name - a String specifying the name of the attribute

## **Returns:**

an Object containing the value of the attribute, or null if the attribute does not exist

# getAttributeNames

```
java.util.Enumeration<java.lang.String> getAttributeNames()
```

Returns an Enumeration containing the names of the attributes available to this request. This method returns an empty Enumeration if the request has no attributes available to it.

#### Returns

an Enumeration of strings containing the names of the request's attributes

# getCharacterEncoding

```
java.lang.String getCharacterEncoding()
```

Returns the name of the character encoding used in the body of this request. This method returns null if the request does not specify a character encoding

# **Returns:**

a String containing the name of the character encoding, or null if the request does not specify a character encoding

# setCharacterEncoding

Overrides the name of the character encoding used in the body of this request. This method must be called prior to reading request parameters or reading input using getReader(). Otherwise, it has no effect.

## **Parameters:**

env - String containing the name of the character encoding.

#### **Throws:**

java.io.UnsupportedEncodingException - if this ServletRequest is still in a state where a character encoding may be set, but the specified encoding is invalid

# getContentLength

```
int getContentLength()
```

Returns the length, in bytes, of the request body and made available by the input stream, or -1 if the length is not known. For HTTP servlets, same as the value of the CGI variable CONTENT\_LENGTH.

# **Returns:**

an integer containing the length of the request body or -1 if the length is not known

# getContentType

```
java.lang.String getContentType()
```

Returns the MIME type of the body of the request, or null if the type is not known. For HTTP servlets, same as the value of the CGI variable CONTENT\_TYPE.

#### **Returns:**

a string containing the name of the MIME type of the request, or null if the type is not known

# getInputStream

Retrieves the body of the request as binary data using a ServletInputStream. Either this method or getReader() may be called to read the body, not both.

# **Returns:**

a ServletInputStream object containing the body of the request

#### **Throws**

IllegalStateException - if the <a href="mailto:getReader">getReader()</a> method has already been called for this request java.io.IOException - if an input or output exception occurred

# getParameter

```
java.lang.String getParameter(java.lang.String name)
```

Returns the value of a request parameter as a String, or null if the parameter does not exist. Request parameters are extra information sent with the request. For HTTP servlets, parameters are contained in the query string or posted form data.

You should only use this method when you are sure the parameter has only one value. If the parameter might have more than one value, use getParameterValues(java.lang.String).

If you use this method with a multivalued parameter, the value returned is equal to the first value in the array returned by getParameterValues.

If the parameter data was sent in the request body, such as occurs with an HTTP POST request, then reading the body directly via getInputStream() or getReader() can interfere with the execution of this method.

### **Parameters:**

name - a String specifying the name of the parameter

### **Returns:**

a String representing the single value of the parameter

### See Also:

getParameterValues(java.lang.String)

### **getParameterNames**

```
java.util.Enumeration<java.lang.String> getParameterNames()
```

Returns an Enumeration of String objects containing the names of the parameters contained in this request. If the request has no parameters, the method returns an empty Enumeration.

### **Returns:**

an Enumeration of String objects, each String containing the name of a request parameter; or an empty Enumeration if the request has no parameters

### **getParameterValues**

```
java.lang.String[] getParameterValues(java.lang.String name)
```

Returns an array of String objects containing all of the values the given request parameter has, or null if the parameter does not exist.

If the parameter has a single value, the array has a length of 1.

### **Parameters:**

name - a String containing the name of the parameter whose value is requested

### **Returns:**

an array of String objects containing the parameter's values

### See Also:

getParameter(java.lang.String)

# getParameterMap

```
java.util.Map<java.lang.String,java.lang.String[]> getParameterMap()
```

Returns a java.util.Map of the parameters of this request.

Request parameters are extra information sent with the request. For HTTP servlets, parameters are contained in the query string or posted form data.

### **Returns:**

an immutable java.util.Map containing parameter names as keys and parameter values as map values. The keys in the parameter map are of type String. The values in the parameter map are of type String array.

### getProtocol

```
java.lang.String getProtocol()
```

Returns the name and version of the protocol the request uses in the form *protocol/majorVersion.minorVersion*, for example, HTTP/1.1. For HTTP servlets, the value returned is the same as the value of the CGI variable SERVER\_PROTOCOL.

### **Returns:**

a String containing the protocol name and version number

### getScheme

```
java.lang.String getScheme()
```

Returns the name of the scheme used to make this request, for example, http, https, or ftp. Different schemes have different rules for constructing URLs, as noted in RFC 1738.

### **Returns:**

a String containing the name of the scheme used to make this request

### getServerName

```
java.lang.String getServerName()
```

Returns the host name of the server to which the request was sent. It is the value of the part before ":" in the Host header value, if any, or the resolved server name, or the server IP address.

### **Returns:**

a String containing the name of the server

### getServerPort

```
int getServerPort()
```

Returns the port number to which the request was sent. It is the value of the part after ":" in the Host header value, if any, or the server port where the client connection was accepted on.

### **Returns:**

an integer specifying the port number

### getReader

Retrieves the body of the request as character data using a BufferedReader. The reader translates the

character data according to the character encoding used on the body. Either this method or getInputStream() may be called to read the body, not both.

### **Returns:**

a BufferedReader containing the body of the request

### **Throws:**

java.io.UnsupportedEncodingException - if the character set encoding used is not supported and the text cannot be decoded

IllegalStateException - if <a href="mailto:getInputStream">getInputStream()</a> method has been called on this request java.io.IOException - if an input or output exception occurred

### See Also:

getInputStream()

### getRemoteAddr

```
java.lang.String getRemoteAddr()
```

Returns the Internet Protocol (IP) address of the client or last proxy that sent the request. For HTTP servlets, same as the value of the CGI variable REMOTE\_ADDR.

### **Returns:**

a String containing the IP address of the client that sent the request

### getRemoteHost

```
java.lang.String getRemoteHost()
```

Returns the fully qualified name of the client or the last proxy that sent the request. If the engine cannot or chooses not to resolve the hostname (to improve performance), this method returns the dotted-string form of the IP address. For HTTP servlets, same as the value of the CGI variable REMOTE\_HOST.

### **Returns:**

a String containing the fully qualified name of the client

### setAttribute

Stores an attribute in this request. Attributes are reset between requests. This method is most often used in conjunction with RequestDispatcher.

Attribute names should follow the same conventions as package names. Names beginning with java.\*, javax.\*, and com.sun.\*, are reserved for use by Sun Microsystems.

If the object passed in is null, the effect is the same as calling removeAttribute(java.lang.String). It is warned that when the request is dispatched from the servlet resides in a different web application by RequestDispatcher, the object set by this method may not be correctly retrieved in the caller servlet.

### **Parameters:**

```
name - a String specifying the name of the attribute o - the Object to be stored
```

### removeAttribute

```
void removeAttribute(java.lang.String name)
```

Removes an attribute from this request. This method is not generally needed as attributes only persist as long as the request is being handled.

Attribute names should follow the same conventions as package names. Names beginning with java.\*, javax.\*, and com.sun.\*, are reserved for use by Sun Microsystems.

### **Parameters:**

name - a String specifying the name of the attribute to remove

### getLocale

```
java.util.Locale getLocale()
```

Returns the preferred Locale that the client will accept content in, based on the Accept-Language header. If the client request doesn't provide an Accept-Language header, this method returns the default locale for the server.

### **Returns:**

the preferred Locale for the client

### getLocales

```
java.util.Enumeration<java.util.Locale> getLocales()
```

Returns an Enumeration of Locale objects indicating, in decreasing order starting with the preferred locale, the locales that are acceptable to the client based on the Accept-Language header. If the client request doesn't provide an Accept-Language header, this method returns an Enumeration containing one Locale, the default locale for the server.

### **Returns:**

an Enumeration of preferred Locale objects for the client

### isSecure

```
boolean isSecure()
```

Returns a boolean indicating whether this request was made using a secure channel, such as HTTPS.

### **Returns:**

a boolean indicating if the request was made using a secure channel

### getRequestDispatcher

```
RequestDispatcher getRequestDispatcher(java.lang.String path)
```

Returns a RequestDispatcher object that acts as a wrapper for the resource located at the given path. A RequestDispatcher object can be used to forward a request to the resource or to include the resource in a response. The resource can be dynamic or static.

The pathname specified may be relative, although it cannot extend outside the current servlet context. If the path begins with a "/" it is interpreted as relative to the current context root. This method returns null if the servlet container cannot return a RequestDispatcher.

The difference between this method and ServletContext#getRequestDispatcher is that this method can take a relative path.

### **Parameters:**

path - a String specifying the pathname to the resource. If it is relative, it must be relative against the current servlet.

### **Returns:**

a RequestDispatcher object that acts as a wrapper for the resource at the specified path, or null if the servlet container cannot return a RequestDispatcher

### See Also:

RequestDispatcher, ServletContext#getRequestDispatcher

### getRealPath

```
java.lang.String getRealPath(java.lang.String path)
```

**Deprecated.** As of Version 2.1 of the Java Servlet API, use ServletContext#getRealPath instead.

### getRemotePort

```
int getRemotePort()
```

Returns the Internet Protocol (IP) source port of the client or last proxy that sent the request.

### **Returns:**

an integer specifying the port number

### Since:

Servlet 2.4

### getLocalName

```
java.lang.String getLocalName()
```

Returns the host name of the Internet Protocol (IP) interface on which the request was received.

### **Returns:**

a String containing the host name of the IP on which the request was received.

### Since:

Servlet 2.4

### getLocalAddr

```
java.lang.String getLocalAddr()
```

Returns the Internet Protocol (IP) address of the interface on which the request was received.

### **Returns:**

a string containing the IP address on which the request was received.

### Since:

Servlet 2.4

### getLocalPort

```
int getLocalPort()
```

Returns the Internet Protocol (IP) port number of the interface on which the request was received.

### Returns:

an integer specifying the port number

Since:

Servlet 2.4

### getServletContext

```
ServletContext getServletContext()
```

Gets the servlet context to which this ServletRequest was last dispatched.

### **Returns:**

the servlet context to which this ServletRequest was last dispatched

Since:

Servlet 3.0

### startAsync

Puts this request into asynchronous mode, and initializes its AsyncContext with the original (unwrapped) ServletRequest and ServletResponse objects.

Calling this method will cause committal of the associated response to be delayed until AsyncContext#complete is called on the returned AsyncContext, or the asynchronous operation has timed out.

Calling AsyncContext#hasOriginalRequestAndResponse() on the returned AsyncContext will return true. Any filters invoked in the *outbound* direction after this request was put into asynchronous mode may use this as an indication that any request and/or response wrappers that they added during their *inbound* invocation need not stay around for the duration of the asynchronous operation, and therefore any of their associated resources may be released.

This method clears the list of AsyncListener instances (if any) that were registered with the AsyncContext returned by the previous call to one of the startAsync methods, after calling each AsyncListener at its onStartAsync method.

Subsequent invocations of this method, or its overloaded variant, will return the same AsyncContext instance, reinitialized as appropriate.

### **Returns:**

the (re)initialized AsyncContext

**Throws:** 

IllegalStateException - if this request is within the scope of a filter or servlet that does not support asynchronous operations (that is, <a href="isaAsyncSupported">isaAsyncSupported()</a> returns false), or if this method is called again without any asynchronous dispatch (resulting from one of the AsyncContext#dispatch methods), is called outside the scope of any such dispatch, or is called again within the scope of the same dispatch, or if the response has already been closed

### Since:

Servlet 3.0

### startAsync

```
<u>AsyncContext</u> startAsync(<u>ServletRequest</u> servletRequest,

<u>ServletResponse</u> servletResponse)

throws java.lang.IllegalStateException
```

Puts this request into asynchronous mode, and initializes its AsyncContext with the given request and response objects.

The ServletRequest and ServletResponse arguments must be the same instances, or instances of ServletRequestWrapper and ServletResponseWrapper that wrap them, that were passed to the service method of the Servlet or the doFilter method of the Filter, respectively, in whose scope this method is being called.

Calling this method will cause committal of the associated response to be delayed until AsyncContext#complete is called on the returned AsyncContext, or the asynchronous operation has timed out.

Calling AsyncContext#hasOriginalRequestAndResponse() on the returned AsyncContext will return false, unless the passed in ServletRequest and ServletResponse arguments are the original ones or do not carry any application-provided wrappers. Any filters invoked in the *outbound* direction after this request was put into asynchronous mode may use this as an indication that some of the request and/or response wrappers that they added during their *inbound* invocation may need to stay in place for the duration of the asynchronous operation, and their associated resources may not be released. A ServletRequestWrapper applied during the *inbound* invocation of a filter may be released by the *outbound* invocation of the filter only if the given servletRequest, which is used to initialize the AsyncContext and will be returned by a call to AsyncContext#getRequest(), does not contain said ServletRequestWrapper. The same holds true for ServletResponseWrapper instances.

This method clears the list of AsyncListener instances (if any) that were registered with the AsyncContext returned by the previous call to one of the startAsync methods, after calling each AsyncListener at its onStartAsync method.

Subsequent invocations of this method, or its zero-argument variant, will return the same AsyncContext instance, reinitialized as appropriate. If a call to this method is followed by a call to its zero-argument variant, the specified (and possibly wrapped) request and response objects will remain *locked in* on the returned AsyncContext.

### **Parameters:**

servletRequest - the ServletRequest used to initialize the AsyncContext servletResponse - the ServletResponse used to initialize the AsyncContext

### **Returns:**

the (re)initialized AsyncContext

### **Throws:**

IllegalStateException - if this request is within the scope of a filter or servlet that does not support asynchronous operations (that is, <u>isAsyncSupported()</u> returns false), or if this method is

called again without any asynchronous dispatch (resulting from one of the AsyncContext#dispatch methods), is called outside the scope of any such dispatch, or is called again within the scope of the same dispatch, or if the response has already been closed

### Since:

Servlet 3.0

### **isAsyncStarted**

boolean isAsyncStarted()

Checks if this request has been put into asynchronous mode.

A ServletRequest is put into asynchronous mode by calling startAsync(ServletRequest, ServletResponse) on it.

This method returns false if this request was put into asynchronous mode, but has since been dispatched using one of the AsyncContext#dispatch methods or released from asynchronous mode via a call to AsyncContext#complete.

### **Returns:**

true if this request has been put into asynchronous mode, false otherwise

### Since:

Servlet 3.0

### isAsyncSupported

boolean isAsyncSupported()

Checks if this request supports asynchronous operation.

Asynchronous operation is disabled for this request if this request is within the scope of a filter or servlet that has not been annotated or flagged in the deployment descriptor as being able to support asynchronous handling.

### **Returns:**

true if this request supports asynchronous operation, false otherwise

### Since:

Servlet 3.0

### getAsyncContext

AsyncContext getAsyncContext()

Gets the AsyncContext that was created or reinitialized by the most recent invocation of startAsync()
or startAsync(ServletRequest, ServletResponse)
on this request.

### **Returns:**

the AsyncContext that was created or reinitialized by the most recent invocation of startAsync()
or startAsync(ServletRequest, ServletResponse) on this request

### Throws

IllegalStateException - if this request has not been put into asynchronous mode, i.e., if neither startAsync() nor startAsync(ServletRequest, ServletResponse) has been called

Since:

Servlet 3.0

### getDispatcherType

DispatcherType getDispatcherType()

Gets the dispatcher type of this request.

The dispatcher type of a request is used by the container to select the filters that need to be applied to the request: Only filters with matching dispatcher type and url patterns will be applied.

Allowing a filter that has been configured for multiple dispatcher types to query a request for its dispatcher type allows the filter to process the request differently depending on its dispatcher type.

The initial dispatcher type of a request is defined as DispatcherType.REQUEST. The dispatcher type of a request dispatched via RequestDispatcher#forward(ServletRequest, ServletResponse) or RequestDispatcher#include(ServletRequest, ServletResponse) is given as DispatcherType.FORWARD or DispatcherType.INCLUDE, respectively, while the dispatcher type of an asynchronous request dispatched via one of the AsyncContext#dispatch methods is given as DispatcherType.ASYNC. Finally, the dispatcher type of a request dispatched to an error page by the container's error handling mechanism is given as DispatcherType.ERROR.

### **Returns:**

the dispatcher type of this request

Since:

Servlet 3.0

See Also:

DispatcherType

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### javax.servlet

# Class ServletRequestAttributeEvent

### **All Implemented Interfaces:**

java.io.Serializable

```
public class ServletRequestAttributeEvent
extends ServletRequestEvent
```

This is the event class for notifications of changes to the attributes of the servlet request in an application.

### Since:

Servlet 2.4

### See Also:

ServletRequestAttributeListener, Serialized Form

# Field Summary

### Fields inherited from class java.util.EventObject

source

# **Constructor Summary**

```
<u>ServletRequestAttributeEvent</u>(ServletContext sc, ServletRequest request, java.lang.String name, java.lang.Object value)
```

Construct a ServletRequestAttributeEvent giving the servlet context of this web application, the ServletRequest whose attributes are changing and the name and value of the attribute.

# Method Summary java.lang.String getName() Return the name of the attribute that changed on the ServletRequest. java.lang.Object getValue() Returns the value of the attribute that has been added, removed or replaced.

# Methods inherited from class javax.servlet.<u>ServletRequestEvent</u> getServletContext, getServletRequest

### Methods inherited from class java.util.EventObject

getSource, toString

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

### **Constructor Detail**

### ServletRequestAttributeEvent

Construct a ServletRequestAttributeEvent giving the servlet context of this web application, the ServletRequest whose attributes are changing and the name and value of the attribute.

### **Parameters:**

```
sc - the ServletContext that is sending the event.

request - the ServletRequest that is sending the event.

name - the name of the request attribute.

value - the value of the request attribute.
```

# **Method Detail**

### getName

```
public java.lang.String getName()
```

Return the name of the attribute that changed on the ServletRequest.

### **Returns:**

the name of the changed request attribute

### getValue

```
public java.lang.Object getValue()
```

Returns the value of the attribute that has been added, removed or replaced. If the attribute was added, this is the value of the attribute. If the attribute was removed, this is the value of the removed attribute. If the attribute was replaced, this is the old value of the attribute.

### **Returns:**

the value of the changed request attribute

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javax.servlet

# Interface ServletRequestAttributeListener

### **All Superinterfaces:**

java.util.EventListener

public interface ServletRequestAttributeListener
extends java.util.EventListener

Interface for receiving notification events about ServletRequest attribute changes.

Notifications will be generated while the request is within the scope of the web application. A ServletRequest is defined as coming into scope of a web application when it is about to enter the first servlet or filter of the web application, and as going out of scope when it exits the last servlet or the first filter in the chain.

In order to receive these notification events, the implementation class must be either declared in the deployment descriptor of the web application, annotated with <u>WebListener</u>, or registered via one of the addListener methods defined on ServletContext.

The order in which implementations of this interface are invoked is unspecified.

### Since:

Servlet 2.4

| Method Summary |   |
|----------------|---|
| void           | Receives notification that an attribute has been added to the ServletRequest.   |
| void           | Receives notification that an attribute has been removed from the ServletRequest.   |
| void           | attributeReplaced (ServletRequestAttributeEvent srae)  Receives notification that an attribute has been replaced on the ServletRequest. |

# **Method Detail**

### attributeAdded

void attributeAdded(ServletRequestAttributeEvent srae)

Receives notification that an attribute has been added to the ServletRequest.

### **Parameters:**

srae - the ServletRequestAttributeEvent containing the ServletRequest and the name and

### value of the attribute that was added

### attributeRemoved

void attributeRemoved(ServletRequestAttributeEvent srae)

Receives notification that an attribute has been removed from the ServletRequest.

### **Parameters:**

srae - the ServletRequestAttributeEvent containing the ServletRequest and the name and value of the attribute that was removed

# attributeReplaced

void attributeReplaced(ServletRequestAttributeEvent srae)

Receives notification that an attribute has been replaced on the ServletRequest.

### **Parameters:**

srae - the ServletRequestAttributeEvent containing the ServletRequest and the name and (old) value of the attribute that was replaced

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### javax.servlet

# Class ServletRequestEvent

### **All Implemented Interfaces:**

java.io.Serializable

### **Direct Known Subclasses:**

ServletRequestAttributeEvent

public class ServletRequestEvent
extends java.util.EventObject

Events of this kind indicate lifecycle events for a ServletRequest. The source of the event is the ServletContext of this web application.

### Since:

Servlet 2.4

### See Also:

ServletRequestListener, Serialized Form

# Field Summary

### Fields inherited from class java.util.EventObject

source

# **Constructor Summary**

<u>ServletRequestEvent</u>(ServletContext sc, ServletRequest request)

Construct a ServletRequestEvent for the given ServletContext and ServletRequest.

# **Method Summary**

| ServletContext | <pre>getServletContext()</pre>                      |
|----------------|---|
|                | Returns the ServletContext of this web application. |
| ServletRequest | <pre>getServletRequest()</pre>                      |
|                | Returns the ServletRequest that is changing.        |

### Methods inherited from class java.util.EventObject

getSource, toString

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

# **Constructor Detail**

### ServletRequestEvent

```
\begin{array}{c} \text{public ServletRequestEvent} ( \underline{ \text{ServletContext} } \\ \underline{ \text{ServletRequest} } \end{array} \text{sc,} \\ \\ \underline{ \text{ServletRequest} } \end{array}
```

Construct a ServletRequestEvent for the given ServletContext and ServletRequest.

### **Parameters:**

sc - the ServletContext of the web application.
request - the ServletRequest that is sending the event.

# **Method Detail**

### getServletRequest

```
public ServletRequest getServletRequest()
```

Returns the ServletRequest that is changing.

### getServletContext

```
public ServletContext getServletContext()
```

Returns the ServletContext of this web application.

### Overview Package Class Tree Deprecated Index Help

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javax.servlet

# Interface ServletRequestListener

### **All Superinterfaces:**

java.util.EventListener

public interface ServletRequestListener
extends java.util.EventListener

Interface for receiving notification events about requests coming into and going out of scope of a web application.

A ServletRequest is defined as coming into scope of a web application when it is about to enter the first servlet or filter of the web application, and as going out of scope as it exits the last servlet or the first filter in the chain.

In order to receive these notification events, the implementation class must be either declared in the deployment descriptor of the web application, annotated with <u>WebListener</u>, or registered via one of the addListener methods defined on ServletContext.

Implementations of this interface are invoked at their

<u>requestInitialized(javax.servlet.ServletRequestEvent)</u> method in the order in which they have been declared, and at their <u>requestDestroyed(javax.servlet.ServletRequestEvent)</u> method in reverse order.

### Since:

Servlet 2.4

# **Method Summary**

void requestDestroyed(ServletRequestEvent sre)

Receives notification that a ServletRequest is about to go out of scope of the web application.

void requestInitialized(ServletRequestEvent sre)

Receives notification that a ServletRequest is about to come into scope of the web application.

# **Method Detail**

### requestDestroyed

void requestDestroyed(ServletRequestEvent sre)

Receives notification that a ServletRequest is about to go out of scope of the web application.

### **Parameters:**

sre - the ServletRequestEvent containing the ServletRequest and the ServletContext representing the web application

### requestInitialized

void requestInitialized(ServletRequestEvent sre)

Receives notification that a ServletRequest is about to come into scope of the web application.

### **Parameters:**

sre - the ServletRequestEvent containing the ServletRequest and the ServletContext representing the web application

### Overview Package Class Tree Deprecated Index Help

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javax.servlet

# Class ServletRequestWrapper

java.lang.Object

└ javax.servlet.ServletRequestWrapper

### **All Implemented Interfaces:**

ServletRequest

### **Direct Known Subclasses:**

HttpServletRequestWrapper

public class ServletRequestWrapper
extends java.lang.Object
implements ServletRequest

Provides a convenient implementation of the ServletRequest interface that can be subclassed by developers wishing to adapt the request to a Servlet. This class implements the Wrapper or Decorator pattern. Methods default to calling through to the wrapped request object.

### Since:

Servlet 2.3

### **See Also:**

ServletRequest

# **Constructor Summary**

ServletRequestWrapper(ServletRequest request)

Creates a ServletRequest adaptor wrapping the given request object.

| Method Summary  |   |
|---|---|
| AsyncContext  | Gets the AsyncContext () Gets the AsyncContext that was created or reinitialized by the most recent invocation of <pre>startAsync()</pre> or <pre>startAsync(ServletRequest, ServletResponse)</pre> on the wrapped request. |
| java.lang.Object  | The default behavior of this method is to call getAttribute(String name) on the wrapped request object.   |
| java.util.Enumeration <java.lang.string></java.lang.string> | The default behavior of this method is to return getAttributeNames() on the wrapped request object.   |

| java lana Chrina  | <pre>getCharacterEncoding()</pre>  |
|---|--|
| java. rang. String  | The default behavior of this method is to  |
|   | return getCharacterEncoding() on the wrapped   |
|   | request object.  |
| int   | getContentLength()   |
|   | The default behavior of this method is to  |
|   | return getContentLength() on the wrapped request                                     |
|   | object.  |
| java lang String  | getContentType()   |
| java. rang. ser rng   | The default behavior of this method is to  |
|   | return getContentType() on the wrapped request                                       |
|   | object.  |
|   |  |
| <u>DispatcherType</u>   | getDispatcherType()  Cots the dispatcher type of the yygened                         |
|   | Gets the dispatcher type of the wrapped  |
|   | request.   |
| <u>ServletInputStream</u>   |  |
|   | The default behavior of this method is to  |
|   | return getInputStream() on the wrapped request                                       |
|   | object.  |
| java.lang.String  |  |
|   | The default behavior of this method is to  |
|   | return getLocalAddr() on the wrapped request   |
|   | object.  |
| java.util.Locale  | <pre>getLocale()</pre>   |
|   | The default behavior of this method is to  |
|   | return getLocale() on the wrapped request object.                                    |
| java.util.Enumeration <java.util.locale></java.util.locale>                               | getLocales()   |
|   | The default behavior of this method is to  |
|   | return getLocales() on the wrapped request object.                                   |
| java.lang.String  | getLocalName()   |
|   | The default behavior of this method is to  |
|   | return getLocalName() on the wrapped request   |
|   | object.  |
| int   | <pre>getLocalPort()</pre>  |
|   | The default behavior of this method is to  |
|   | return getLocalPort() on the wrapped request   |
|   | object.  |
| java.lang.String  | <pre>getParameter(java.lang.String name)</pre>                                       |
|   | The default behavior of this method is to  |
|   | return getParameter(String name) on the wrapped                                      |
|   | request object.  |
| java.util.Map <java.lang.string,java.lang.string[]></java.lang.string,java.lang.string[]> | getParameterMap()  |
|   | The default behavior of this method is to  |
|   | return getParameterMap() on the wrapped request                                      |
|   | object.  |
| java.util.Enumeration <java.lang.string></java.lang.string>                               | getParameterNames()  |
| J   | The default behavior of this method is to  |
|   | return getParameterNames() on the wrapped request                                    |
|   | object.  |
| 2   | °  |
| java.lang.String[]  | getParameterValues (java.lang.String name) The default behavior of this method is to |
|   | The default behavior of this method is to  |
|   |  |

|                        | return getParameterValues(String name) on the wrapped request object.   |
|------------------------|---|
| java.lang.String       | The default behavior of this method is to return getProtocol() on the wrapped request object.                                       |
| java.io.BufferedReader | The default behavior of this method is to return getReader() on the wrapped request object.   |
| java.lang.String       | petRealPath (java.lang.String path)  Deprecated. As of Version 2.1 of the Java  Servlet API, use ServletContext#getRealPath instead |
| java.lang.String       | The default behavior of this method is to return getRemoteAddr() on the wrapped request object.                                     |
| java.lang.String       | The default behavior of this method is to return getRemoteHost() on the wrapped request object.                                     |
| int                    | The default behavior of this method is to return getRemotePort() on the wrapped request object.                                     |
| ServletRequest         | Return the wrapped request object.  |
| RequestDispatcher      | The default behavior of this method is to return getRequestDispatcher(String path) on the wrapped request object.                   |
| java.lang.String       | The default behavior of this method is to return getScheme() on the wrapped request object.   |
| java.lang.String       | The default behavior of this method is to return getServerName() on the wrapped request object.                                     |
| int                    | The default behavior of this method is to return getServerPort() on the wrapped request object.                                     |
| ServletContext         | Gets the servlet context to which the wrapped servlet request was last dispatched.  |
| boolean                | Checks if the wrapped request has been put into asynchronous mode.  |
| boolean                | Checks if the wrapped request supports asynchronous operation.  |

| boolean      | The default behavior of this method is to return isSecure() on the wrapped request object.  |
|--------------|---|
| boolean      | isWrapperFor(java.lang.Class wrappedType) Checks (recursively) if this ServletRequestWrapper wraps a ServletRequest of the given class type.  |
| boolean      | isWrapperFor (ServletRequest wrapped) Checks (recursively) if this ServletRequestWrapper wraps the given ServletRequest instance.   |
| void         | removeAttribute (java.lang.String name) The default behavior of this method is to call removeAttribute(String name) on the wrapped request object.  |
| void         | setAttribute(java.lang.String name, java.lang.Object o)  The default behavior of this method is to return setAttribute(String name, Object o) on the wrapped request object.  |
| void         | The default behavior of this method is to set the character encoding on the wrapped request object.   |
| void         | Sets the request object being wrapped.  |
| AsyncContext | StartAsync() The default behavior of this method is to invoke ServletRequest#startAsync on the wrapped request object.  |
| AsyncContext | <pre>startAsync(ServletRequest servletRequest, ServletResponse servletResponse)    The default behavior of this method is to invoke ServletRequest#startAsync(ServletRequest, ServletResponse) on the wrapped request object.</pre> |

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

# **Constructor Detail**

# Servlet Request Wrapper

public ServletRequestWrapper(ServletRequest request)

Creates a ServletRequest adaptor wrapping the given request object.

### Throws:

java.lang.IllegalArgumentException - if the request is null

# **Method Detail**

### getRequest

public ServletRequest getRequest()

Return the wrapped request object.

### setRequest

```
public void setRequest(ServletRequest request)
```

Sets the request object being wrapped.

### **Throws:**

java.lang.IllegalArgumentException - if the request is null.

### getAttribute

```
public java.lang.Object getAttribute(java.lang.String name)
```

The default behavior of this method is to call getAttribute(String name) on the wrapped request object.

### Specified by:

getAttribute in interface ServletRequest

### **Parameters:**

name - a String specifying the name of the attribute

### **Returns:**

an Object containing the value of the attribute, or null if the attribute does not exist

### getAttributeNames

```
public java.util.Enumeration<java.lang.String> getAttributeNames()
```

The default behavior of this method is to return getAttributeNames() on the wrapped request object.

### **Specified by:**

getAttributeNames in interface ServletRequest

### **Returns:**

an Enumeration of strings containing the names of the request's attributes

### getCharacterEncoding

```
public java.lang.String getCharacterEncoding()
```

The default behavior of this method is to return getCharacterEncoding() on the wrapped request object.

### Specified by:

getCharacterEncoding in interface ServletRequest

### **Returns:**

a String containing the name of the character encoding, or null if the request does not specify a character encoding

### setCharacterEncoding

The default behavior of this method is to set the character encoding on the wrapped request object.

### Specified by:

setCharacterEncoding in interface ServletRequest

### Parameters:

enc - String containing the name of the character encoding.

### **Throws:**

java.io.UnsupportedEncodingException - if this ServletRequest is still in a state where a character encoding may be set, but the specified encoding is invalid

### getContentLength

```
public int getContentLength()
```

The default behavior of this method is to return getContentLength() on the wrapped request object.

### Specified by:

getContentLength in interface ServletRequest

### **Returns:**

an integer containing the length of the request body or -1 if the length is not known

### getContentType

```
public java.lang.String getContentType()
```

The default behavior of this method is to return getContentType() on the wrapped request object.

### Specified by:

getContentType in interface ServletRequest

### **Returns:**

a String containing the name of the MIME type of the request, or null if the type is not known

# getInputStream

The default behavior of this method is to return getInputStream() on the wrapped request object.

### **Specified by:**

getInputStream in interface ServletRequest

### Returns

a ServletInputStream object containing the body of the request

### **Throws:**

java.io.IOException - if an input or output exception occurred

### getParameter

```
public java.lang.String getParameter(java.lang.String name)
```

The default behavior of this method is to return getParameter(String name) on the wrapped request object.

### Specified by:

getParameter in interface ServletRequest

### **Parameters:**

name - a String specifying the name of the parameter

### **Returns:**

a String representing the single value of the parameter

### See Also:

ServletRequest.getParameterValues(java.lang.String)

### getParameterMap

```
public java.util.Map<java.lang.String,java.lang.String[]> getParameterMap()
```

The default behavior of this method is to return getParameterMap() on the wrapped request object.

### Specified by:

getParameterMap in interface ServletRequest

### **Returns:**

an immutable java.util.Map containing parameter names as keys and parameter values as map values. The keys in the parameter map are of type String. The values in the parameter map are of type String array.

### **getParameterNames**

```
public java.util.Enumeration<java.lang.String> getParameterNames()
```

The default behavior of this method is to return getParameterNames() on the wrapped request object.

### **Specified by:**

getParameterNames in interface ServletRequest

### **Returns:**

an Enumeration of String objects, each String containing the name of a request parameter; or an empty Enumeration if the request has no parameters

### getParameterValues

```
public java.lang.String[] getParameterValues(java.lang.String name)
```

The default behavior of this method is to return getParameterValues(String name) on the wrapped request object.

### **Specified by:**

getParameterValues in interface ServletRequest

### **Parameters:**

name - a String containing the name of the parameter whose value is requested

### **Returns:**

an array of String objects containing the parameter's values

### See Also:

ServletRequest.getParameter(java.lang.String)

### getProtocol

```
public java.lang.String getProtocol()
```

The default behavior of this method is to return getProtocol() on the wrapped request object.

### Specified by:

getProtocol in interface ServletRequest

### **Returns:**

a String containing the protocol name and version number

# getScheme

```
public java.lang.String getScheme()
```

The default behavior of this method is to return getScheme() on the wrapped request object.

### Specified by:

getScheme in interface ServletRequest

### **Returns:**

a String containing the name of the scheme used to make this request

# getServerName

```
public java.lang.String getServerName()
```

The default behavior of this method is to return getServerName() on the wrapped request object.

### Specified by:

getServerName in interface ServletRequest

### **Returns:**

a String containing the name of the server

### getServerPort

```
public int getServerPort()
```

The default behavior of this method is to return getServerPort() on the wrapped request object.

### **Specified by:**

getServerPort in interface ServletRequest

### **Returns:**

an integer specifying the port number

### getReader

The default behavior of this method is to return getReader() on the wrapped request object.

### Specified by:

getReader in interface ServletRequest

### **Returns:**

a BufferedReader containing the body of the request

### **Throws:**

java.io.UnsupportedEncodingException - if the character set encoding used is not supported and the text cannot be decoded

java.io.IOException - if an input or output exception occurred

### See Also:

ServletRequest.getInputStream()

# getRemoteAddr

```
public java.lang.String getRemoteAddr()
```

The default behavior of this method is to return getRemoteAddr() on the wrapped request object.

### Specified by:

getRemoteAddr in interface ServletRequest

### **Returns:**

a String containing the IP address of the client that sent the request

### getRemoteHost

```
public java.lang.String getRemoteHost()
```

The default behavior of this method is to return getRemoteHost() on the wrapped request object.

### **Specified by:**

getRemoteHost in interface ServletRequest

### Returns

a string containing the fully qualified name of the client

### setAttribute

The default behavior of this method is to return setAttribute(String name, Object o) on the wrapped request object.

### Specified by:

setAttribute in interface ServletRequest

### **Parameters:**

name - a String specifying the name of the attribute o - the Object to be stored

### removeAttribute

```
public void removeAttribute(java.lang.String name)
```

The default behavior of this method is to call removeAttribute(String name) on the wrapped request object.

### **Specified by:**

removeAttribute in interface ServletRequest

### **Parameters:**

name - a String specifying the name of the attribute to remove

### getLocale

```
public java.util.Locale getLocale()
```

The default behavior of this method is to return getLocale() on the wrapped request object.

### Specified by:

getLocale in interface ServletRequest

### **Returns:**

the preferred Locale for the client

### getLocales

```
public java.util.Enumeration<java.util.Locale> getLocales()
```

The default behavior of this method is to return getLocales() on the wrapped request object.

### Specified by:

getLocales in interface ServletRequest

### **Returns:**

an Enumeration of preferred Locale objects for the client

### **isSecure**

```
public boolean isSecure()
```

The default behavior of this method is to return is Secure() on the wrapped request object.

### **Specified by:**

isSecure in interface ServletRequest

### Returns

a boolean indicating if the request was made using a secure channel

### getRequestDispatcher

```
public RequestDispatcher getRequestDispatcher(java.lang.String path)
```

The default behavior of this method is to return getRequestDispatcher(String path) on the wrapped request object.

### **Specified by:**

getRequestDispatcher in interface ServletRequest

### Parameters:

path - a String specifying the pathname to the resource. If it is relative, it must be relative against

the current servlet.

### **Returns:**

a RequestDispatcher object that acts as a wrapper for the resource at the specified path, or null if the servlet container cannot return a RequestDispatcher

### See Also:

RequestDispatcher, ServletContext#getRequestDispatcher

### getRealPath

```
public java.lang.String getRealPath(java.lang.String path)
```

**Deprecated.** As of Version 2.1 of the Java Servlet API, use ServletContext#getRealPath instead

The default behavior of this method is to return getRealPath(String path) on the wrapped request object.

### Specified by:

getRealPath in interface ServletRequest

### getRemotePort

```
public int getRemotePort()
```

The default behavior of this method is to return getRemotePort() on the wrapped request object.

### Specified by:

getRemotePort in interface ServletRequest

### Returns

an integer specifying the port number

### Since:

Servlet 2.4

### getLocalName

```
public java.lang.String getLocalName()
```

The default behavior of this method is to return getLocalName() on the wrapped request object.

### Specified by:

getLocalName in interface ServletRequest

### **Returns:**

a String containing the host name of the IP on which the request was received.

### Since:

Servlet 2.4

### getLocalAddr

```
public java.lang.String getLocalAddr()
```

The default behavior of this method is to return getLocalAddr() on the wrapped request object.

### Specified by:

getLocalAddr in interface ServletRequest

### **Returns:**

a String containing the IP address on which the request was received.

### Since:

Servlet 2.4

### getLocalPort

```
public int getLocalPort()
```

The default behavior of this method is to return getLocalPort() on the wrapped request object.

### Specified by:

getLocalPort in interface ServletRequest

### **Returns:**

an integer specifying the port number

### Since:

Servlet 2.4

### getServletContext

```
public ServletContext getServletContext()
```

Gets the servlet context to which the wrapped servlet request was last dispatched.

### Specified by:

getServletContext in interface ServletRequest

### Returns

the servlet context to which the wrapped servlet request was last dispatched

### Since:

Servlet 3.0

### startAsync

The default behavior of this method is to invoke ServletRequest#startAsync on the wrapped request object.

### **Specified by:**

startAsync in interface ServletRequest

### **Returns:**

the (re)initialized AsyncContext

### **Throws:**

IllegalStateException - if the request is within the scope of a filter or servlet that does not support asynchronous operations (that is, <a href="isaAsyncSupported">isAsyncSupported()</a> returns false), or if this method is called again without any asynchronous dispatch (resulting from one of the AsyncContext#dispatch methods), is called outside the scope of any such dispatch, or is called again within the scope of the same dispatch, or if the response has already been closed

### Since:

Servlet 3.0

### See Also:

ServletRequest#startAsync

### startAsync

The default behavior of this method is to invoke ServletRequest#startAsync(ServletRequest, ServletResponse) on the wrapped request object.

### **Specified by:**

startAsync in interface ServletRequest

### **Parameters:**

servletRequest - the ServletRequest used to initialize the AsyncContext servletResponse - the ServletResponse used to initialize the AsyncContext

### Returns:

the (re)initialized AsyncContext

### **Throws:**

IllegalStateException - if the request is within the scope of a filter or servlet that does not support asynchronous operations (that is, <u>isAsyncSupported()</u> returns false), or if this method is called again without any asynchronous dispatch (resulting from one of the AsyncContext#dispatch methods), is called outside the scope of any such dispatch, or is called again within the scope of the same dispatch, or if the response has already been closed

### Since:

Servlet 3.0

### See Also:

ServletRequest#startAsync(ServletRequest, ServletResponse)

### **isAsyncStarted**

```
public boolean isAsyncStarted()
```

Checks if the wrapped request has been put into asynchronous mode.

### **Specified by:**

isAsyncStarted in interface ServletRequest

### Returns

true if this request has been put into asynchronous mode, false otherwise

### Since:

Servlet 3.0

### See Also:

ServletRequest#isAsyncStarted

# isAsyncSupported

```
public boolean isAsyncSupported()
```

Checks if the wrapped request supports asynchronous operation.

### **Specified by:**

isAsyncSupported in interface ServletRequest

### **Returns:**

true if this request supports asynchronous operation, false otherwise

Since:

Servlet 3.0

### See Also:

ServletRequest#isAsyncSupported

### getAsyncContext

```
public AsyncContext getAsyncContext()
```

Gets the AsyncContext that was created or reinitialized by the most recent invocation of startAsync() or startAsync(ServletRequest, ServletResponse) on the wrapped request.

### Specified by:

getAsyncContext in interface ServletRequest

### **Returns:**

the AsyncContext that was created or reinitialized by the most recent invocation of startAsync()
or startAsync(ServletRequest, ServletResponse) on the wrapped request

### **Throws:**

IllegalStateException - if this request has not been put into asynchronous mode, i.e., if neither startAsync() nor startAsync(ServletRequest, ServletResponse) has been called

### Since:

Servlet 3.0

### See Also:

ServletRequest#getAsyncContext

### isWrapperFor

```
public boolean isWrapperFor(ServletRequest wrapped)
```

Checks (recursively) if this ServletRequestWrapper wraps the given ServletRequest instance.

### **Parameters:**

wrapped - the ServletRequest instance to search for

### Returns

true if this ServletRequestWrapper wraps the given ServletRequest instance, false otherwise

### Since:

Servlet 3.0

### isWrapperFor

```
public boolean isWrapperFor(java.lang.Class wrappedType)
```

Checks (recursively) if this ServletRequestWrapper wraps a ServletRequest of the given class type.

### **Parameters:**

wrappedType - the ServletRequest class type to search for

### Returns

true if this ServletRequestWrapper wraps a ServletRequest of the given class type, false otherwise

### Throws:

IllegalArgumentException - if the given class does not implement ServletRequest

### Since:

Servlet 3.0

# getDispatcherType

public DispatcherType getDispatcherType()

Gets the dispatcher type of the wrapped request.

**Specified by:** 

getDispatcherType in interface ServletRequest

**Returns:** 

the dispatcher type of the wrapped request

Since:

Servlet 3.0

See Also:

ServletRequest#getDispatcherType

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### javax.servlet

# **Interface ServletResponse**

### **All Known Subinterfaces:**

**HttpServletResponse** 

### **All Known Implementing Classes:**

HttpServletResponseWrapper, ServletResponseWrapper

public interface ServletResponse

Defines an object to assist a servlet in sending a response to the client. The servlet container creates a ServletResponse object and passes it as an argument to the servlet's service method.

To send binary data in a MIME body response, use the ServletOutputStream returned by getOutputStream(). To send character data, use the PrintWriter object returned by getWriter(). To mix binary and text data, for example, to create a multipart response, use a ServletOutputStream and manage the character sections manually.

The charset for the MIME body response can be specified explicitly using the setCharacterEncoding(java.lang.String) and setContentType(java.lang.String) methods, or implicitly using the setLocale(java.util.Locale) method. Explicit specifications take precedence over implicit specifications. If no charset is specified, ISO-8859-1 will be used. The setContentType, or setLocale method must be called before getWriter and before committing the response for the character encoding to be used.

See the Internet RFCs such as <u>RFC 2045</u> for more information on MIME. Protocols such as SMTP and HTTP define profiles of MIME, and those standards are still evolving.

### **Author:**

Various

### See Also:

ServletOutputStream

| Method Summary   |  |  |  |  |
|------------------|--|--|--|--|
| void             | Forces any content in the buffer to be written to the client.                                      |  |  |  |
| int              | Returns the actual buffer size used for the response.  |  |  |  |
| java.lang.String | Returns the name of the character encoding (MIME charset) used for the body sent in this response. |  |  |  |
| java.lang.String | Returns the content type used for the MIME body sent in this response.                             |  |  |  |

| java.util.Locale    | Returns the locale specified for this response using the setLocale(java.util.Locale) method.                           |
|---------------------|--|
| ServletOutputStream | getOutputStream()  Returns a ServletOutputStream suitable for writing binary data in the response.                     |
| java.io.PrintWriter | -  |
| boolean             | Returns a boolean indicating if the response has been committed.   |
| void                | Clears any data that exists in the buffer as well as the status code and headers.                                      |
| void                | Clears the content of the underlying buffer in the response without clearing headers or status code.                   |
| void                | SetBufferSize (int size)  Sets the preferred buffer size for the body of the response.                                 |
| void                | Sets the character encoding (MIME charset) of the response being sent to the client, for example, to UTF-8.            |
| void                | Sets the length of the content body in the response In HTTP servlets, this method sets the HTTP Content-Length header. |
| void                | Sets the content type of the response being sent to the client, if the response has not been committed yet.            |
| void                | Sets the locale of the response, if the response has not been committed yet.   |

# **Method Detail**

### getCharacterEncoding

java.lang.String getCharacterEncoding()

Returns the name of the character encoding (MIME charset) used for the body sent in this response. The character encoding may have been specified explicitly using the

setCharacterEncoding(java.lang.String) or setContentType(java.lang.String) methods, or implicitly using the setLocale(java.util.Locale) method. Explicit specifications take precedence over implicit specifications. Calls made to these methods after getWriter has been called or after the response has been committed have no effect on the character encoding. If no character encoding has been specified, ISO-8859-1 is returned.

See RFC 2047 (http://www.ietf.org/rfc/rfc2047.txt) for more information about character encoding and MIME.

### **Returns:**

a String specifying the name of the character encoding, for example, UTF-8

# getContentType

```
java.lang.String getContentType()
```

Returns the content type used for the MIME body sent in this response. The content type proper must have been specified using setContentType(java.lang.String) before the response is committed. If no content type has been specified, this method returns null. If a content type has been specified, and a character encoding has been explicitly or implicitly specified as described in getCharacterEncoding() or getWriter() has been called, the charset parameter is included in the string returned. If no character encoding has been specified, the charset parameter is omitted.

### **Returns:**

a String specifying the content type, for example, text/html; charset=UTF-8, or null **Since:** 

Servlet 2.4

### getOutputStream

Returns a ServletOutputStream suitable for writing binary data in the response. The servlet container does not encode the binary data.

Calling flush() on the ServletOutputStream commits the response. Either this method or getWriter() may be called to write the body, not both.

### **Returns:**

a ServletOutputStream for writing binary data

### **Throws:**

 ${\tt IllegalStateException - if the getWriter method has been called on this response java.io.} {\tt IOException - if an input or output exception occurred}$ 

### See Also:

getWriter()

### getWriter

Returns a PrintWriter object that can send character text to the client. The PrintWriter uses the character encoding returned by <a href="mailto:getCharacterEncoding">getCharacterEncoding</a>(). If the response's character encoding has not been specified as described in <a href="mailto:getCharacterEncoding">getCharacterEncoding</a> (i.e., the method just returns the default value ISO-8859-1), <a href="mailto:getWriter">getWriter</a> updates it to ISO-8859-1.

Calling flush() on the PrintWriter commits the response.

Either this method or getOutputStream() may be called to write the body, not both.

#### **Returns:**

a PrintWriter object that can return character data to the client

#### **Throws:**

UnsupportedEncodingException - if the character encoding returned by getCharacterEncoding cannot be used

IllegalStateException - if the getOutputStream method has already been called for this

response object

java.io.IOException - if an input or output exception occurred

### See Also:

getOutputStream(), setCharacterEncoding(java.lang.String)

# setCharacterEncoding

```
void setCharacterEncoding(java.lang.String charset)
```

Sets the character encoding (MIME charset) of the response being sent to the client, for example, to UTF-8. If the character encoding has already been set by setContentType(java.lang.String) or setLocale(java.util.Locale), this method overrides it. Calling setContentType(java.lang.String) with the String of text/html and calling this method with the String of UTF-8 is equivalent with calling setContentType with the String of text/html; charset=UTF-8.

This method can be called repeatedly to change the character encoding. This method has no effect if it is called after getWriter has been called or after the response has been committed.

Containers must communicate the character encoding used for the servlet response's writer to the client if the protocol provides a way for doing so. In the case of HTTP, the character encoding is communicated as part of the Content-Type header for text media types. Note that the character encoding cannot be communicated via HTTP headers if the servlet does not specify a content type; however, it is still used to encode text written via the servlet response's writer.

#### **Parameters:**

charset - a String specifying only the character set defined by IANA Character Sets (http://www.iana.org/assignments/character-sets)

# Since:

Servlet 2.4

### See Also:

#setLocale

# set Content Length

void setContentLength(int len)

Sets the length of the content body in the response In HTTP servlets, this method sets the HTTP Content-Length header.

#### **Parameters:**

len - an integer specifying the length of the content being returned to the client; sets the Content-Length header

# setContentType

```
void setContentType(java.lang.String type)
```

Sets the content type of the response being sent to the client, if the response has not been committed yet. The given content type may include a character encoding specification, for example, text/html;charset=UTF-8. The response's character encoding is only set from the given content type if this method is called before getWriter is called.

This method may be called repeatedly to change content type and character encoding. This method has no effect if called after the response has been committed. It does not set the response's character encoding if it is called after getWriter has been called or after the response has been committed.

Containers must communicate the content type and the character encoding used for the servlet response's writer to the client if the protocol provides a way for doing so. In the case of HTTP, the Content-Type header is used.

#### **Parameters:**

type - a String specifying the MIME type of the content

### See Also:

setLocale(java.util.Locale), setCharacterEncoding(java.lang.String),
getOutputStream(), getWriter()

# setBufferSize

```
void setBufferSize(int size)
```

Sets the preferred buffer size for the body of the response. The servlet container will use a buffer at least as large as the size requested. The actual buffer size used can be found using <code>getBufferSize</code>.

A larger buffer allows more content to be written before anything is actually sent, thus providing the servlet with more time to set appropriate status codes and headers. A smaller buffer decreases server memory load and allows the client to start receiving data more quickly.

This method must be called before any response body content is written; if content has been written or the response object has been committed, this method throws an IllegalStateException.

#### **Parameters:**

size - the preferred buffer size

#### **Throws:**

IllegalStateException - if this method is called after content has been written

### See Also:

getBufferSize(), flushBuffer(), isCommitted(), reset()

# getBufferSize

```
int getBufferSize()
```

Returns the actual buffer size used for the response. If no buffering is used, this method returns 0.

#### **Returns:**

the actual buffer size used

### See Also:

setBufferSize(int), flushBuffer(), isCommitted(), reset()

# flushBuffer

Forces any content in the buffer to be written to the client. A call to this method automatically commits the response, meaning the status code and headers will be written.

#### **Throws:**

java.io.IOException

#### See Also:

setBufferSize(int), getBufferSize(), isCommitted(), reset()

# resetBuffer

```
void resetBuffer()
```

Clears the content of the underlying buffer in the response without clearing headers or status code. If the response has been committed, this method throws an IllegalStateException.

### Since:

Servlet 2.3

### See Also:

setBufferSize(int), getBufferSize(), isCommitted(), reset()

# **isCommitted**

```
boolean isCommitted()
```

Returns a boolean indicating if the response has been committed. A committed response has already had its status code and headers written.

#### **Returns:**

a boolean indicating if the response has been committed

#### See Also:

setBufferSize(int), getBufferSize(), flushBuffer(), reset()

#### reset

```
void reset()
```

Clears any data that exists in the buffer as well as the status code and headers. If the response has been committed, this method throws an IllegalStateException.

#### **Throws:**

IllegalStateException - if the response has already been committed

#### See Also:

setBufferSize(int), getBufferSize(), flushBuffer(), isCommitted()

### setLocale

void setLocale(java.util.Locale loc)

Sets the locale of the response, if the response has not been committed yet. It also sets the response's character encoding appropriately for the locale, if the character encoding has not been explicitly set using setContentType(java.lang.String) or setCharacterEncoding(java.lang.String), getWriter hasn't been called yet, and the response hasn't been committed yet. If the deployment descriptor contains a locale-encodingmapping-list element, and that element provides a mapping for the given locale, that mapping is used. Otherwise, the mapping from locale to character encoding is container dependent.

This method may be called repeatedly to change locale and character encoding. The method has no effect if called after the response has been committed. It does not set the response's character encoding if it is called after setContentType(java.lang.String) has been called with a charset specification, after setCharacterEncoding(java.lang.String) has been called, after getWriter has been called, or after the response has been committed.

Containers must communicate the locale and the character encoding used for the servlet response's writer to the client if the protocol provides a way for doing so. In the case of HTTP, the locale is communicated via the Content-Language header, the character encoding as part of the Content-Type header for text media types. Note that the character encoding cannot be communicated via HTTP headers if the servlet does not specify a content type; however, it is still used to encode text written via the servlet response's writer.

#### **Parameters:**

loc - the locale of the response

#### See Also:

getLocale(), setContentType(java.lang.String),
setCharacterEncoding(java.lang.String)

# getLocale

```
java.util.Locale getLocale()
```

Returns the locale specified for this response using the <a href="mailto:setLocale">setLocale</a> (java.util.Locale) method. Calls made to <a href="mailto:setLocale">setLocale</a> after the response is committed have no effect. If no locale has been specified, the container's default locale is returned.

#### See Also:

setLocale(java.util.Locale)

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javax.servlet

# Class ServletResponseWrapper

java.lang.Object

□ javax.servlet.ServletResponseWrapper

# **All Implemented Interfaces:**

ServletResponse

#### **Direct Known Subclasses:**

HttpServletResponseWrapper

public class ServletResponseWrapper
extends java.lang.Object
implements ServletResponse

Provides a convenient implementation of the ServletResponse interface that can be subclassed by developers wishing to adapt the response from a Servlet. This class implements the Wrapper or Decorator pattern. Methods default to calling through to the wrapped response object.

Since:

Servlet 2.3

**Author:** 

**Various** 

See Also:

ServletResponse

# **Constructor Summary**

ServletResponseWrapper(ServletResponse response)

Creates a ServletResponse adaptor wrapping the given response object.

| Method Summary   |   |
|------------------|---|
| void             | The default behavior of this method is to call flushBuffer() on the wrapped response object.            |
| int              | The default behavior of this method is to return getBufferSize() on the wrapped response object.        |
| java.lang.String | The default behavior of this method is to return getCharacterEncoding() on the wrapped response object. |
| java.lang.String | The default behavior of this method is to return getContentType() on the                                |

|                        | wrapped response object.   |
|------------------------|--|
| java.util.Locale       | The default behavior of this method is to return getLocale() on the wrapped response object.   |
| ServletOutputStream    | The default behavior of this method is to return getOutputStream() on the wrapped response object.   |
| <u>ServletResponse</u> | Return the wrapped ServletResponse object.   |
| java.io.PrintWriter    | The default behavior of this method is to return getWriter() on the wrapped response object.   |
| boolean                | The default behavior of this method is to return isCommitted() on the wrapped response object.   |
| boolean                | isWrapperFor (java.lang.Class wrappedType)  Checks (recursively) if this ServletResponseWrapper wraps a  ServletResponse of the given class type.                    |
| boolean                | isWrapperFor (ServletResponse wrapped) Checks (recursively) if this ServletResponseWrapper wraps the given ServletResponse instance.                                 |
| void                   | The default behavior of this method is to call reset() on the wrapped response object.   |
| void                   | The default behavior of this method is to call resetBuffer() on the wrapped response object.   |
| void                   | The default behavior of this method is to call setBufferSize(int size) on the wrapped response object.   |
| void                   | SetCharacterEncoding (java.lang.String charset)  The default behavior of this method is to call setCharacterEncoding(String charset) on the wrapped response object. |
| void                   | The default behavior of this method is to call setContentLength(int len) on the wrapped response object.   |
| void                   | setContentType (java.lang.String type)  The default behavior of this method is to call setContentType(String type) on the wrapped response object.                   |
| void                   | The default behavior of this method is to call setLocale(Locale loc) on the wrapped response object.   |
| void                   | Sets the response being wrapped.   |

# Methods inherited from class java.lang.Object

 $\verb|clone|, equals|, finalize|, getClass|, hashCode|, notify|, notifyAll|, toString|, wait|, wait|, wait|$ 

# **Constructor Detail**

# ServletResponseWrapper

public ServletResponseWrapper(ServletResponse response)

Creates a ServletResponse adaptor wrapping the given response object.

#### **Throws:**

java.lang.IllegalArgumentException - if the response is null.

# **Method Detail**

# getResponse

```
public ServletResponse getResponse()
```

Return the wrapped ServletResponse object.

# setResponse

```
public void setResponse(ServletResponse response)
```

Sets the response being wrapped.

#### Throws:

java.lang.IllegalArgumentException - if the response is null.

# setCharacterEncoding

```
public void setCharacterEncoding(java.lang.String charset)
```

The default behavior of this method is to call setCharacterEncoding(String charset) on the wrapped response object.

# Specified by:

setCharacterEncoding in interface ServletResponse

#### Parameters:

charset - a String specifying only the character set defined by IANA Character Sets (http://www.iana.org/assignments/character-sets)

#### Since:

Servlet 2.4

#### See Also:

#setLocale

# getCharacterEncoding

```
public java.lang.String getCharacterEncoding()
```

The default behavior of this method is to return getCharacterEncoding() on the wrapped response object.

### Specified by:

getCharacterEncoding in interface ServletResponse

#### **Returns:**

a String specifying the name of the character encoding, for example, UTF-8

# getOutputStream

The default behavior of this method is to return getOutputStream() on the wrapped response object.

# Specified by:

getOutputStream in interface ServletResponse

#### **Returns:**

a ServletOutputStream for writing binary data

#### **Throws:**

java.io.IOException - if an input or output exception occurred

#### See Also:

ServletResponse.getWriter()

# getWriter

The default behavior of this method is to return getWriter() on the wrapped response object.

### Specified by:

getWriter in interface ServletResponse

### **Returns:**

a PrintWriter object that can return character data to the client

#### **Throws:**

java.io.IOException - if an input or output exception occurred

#### See Also:

```
ServletResponse.getOutputStream(),
```

 $\underline{\texttt{ServletResponse.setCharacterEncoding(java.lang.String)}}$ 

# setContentLength

```
public void setContentLength(int len)
```

The default behavior of this method is to call setContentLength(int len) on the wrapped response object.

# Specified by:

setContentLength in interface ServletResponse

### **Parameters:**

len - an integer specifying the length of the content being returned to the client; sets the Content-Length header

# setContentType

```
public void setContentType(java.lang.String type)
```

The default behavior of this method is to call setContentType(String type) on the wrapped response object.

# Specified by:

setContentType in interface ServletResponse

#### **Parameters:**

type - a String specifying the MIME type of the content

### See Also:

```
ServletResponse.setLocale(java.util.Locale),
ServletResponse.setCharacterEncoding(java.lang.String),
```

ServletResponse.getOutputStream(), ServletResponse.getWriter()

# getContentType

```
public java.lang.String getContentType()
```

The default behavior of this method is to return getContentType() on the wrapped response object.

# Specified by:

getContentType in interface ServletResponse

#### Returns

a String specifying the content type, for example, text/html; charset=UTF-8, or null

#### Since:

Servlet 2.4

# setBufferSize

```
public void setBufferSize(int size)
```

The default behavior of this method is to call setBufferSize(int size) on the wrapped response object.

# Specified by:

setBufferSize in interface ServletResponse

### **Parameters:**

size - the preferred buffer size

# See Also:

ServletResponse.getBufferSize(), ServletResponse.flushBuffer(),
ServletResponse.isCommitted(), ServletResponse.reset()

# getBufferSize

```
public int getBufferSize()
```

The default behavior of this method is to return getBufferSize() on the wrapped response object.

# Specified by:

```
getBufferSize in interface ServletResponse
```

# **Returns:**

the actual buffer size used

#### See Also:

```
ServletResponse.setBufferSize(int), ServletResponse.flushBuffer(),
ServletResponse.isCommitted(), ServletResponse.reset()
```

# flushBuffer

The default behavior of this method is to call flushBuffer() on the wrapped response object.

# Specified by:

```
flushBuffer in interface ServletResponse
```

#### **Throws:**

java.io.IOException

#### See Also:

```
ServletResponse.setBufferSize(int), ServletResponse.getBufferSize(),
ServletResponse.isCommitted(), ServletResponse.reset()
```

# **isCommitted**

```
public boolean isCommitted()
```

The default behavior of this method is to return isCommitted() on the wrapped response object.

### **Specified by:**

```
isCommitted in interface ServletResponse
```

### **Returns:**

a boolean indicating if the response has been committed

#### See Also:

```
ServletResponse.setBufferSize(int), ServletResponse.getBufferSize(),
ServletResponse.flushBuffer(), ServletResponse.reset()
```

# reset

```
public void reset()
```

The default behavior of this method is to call reset() on the wrapped response object.

# Specified by:

```
reset in interface ServletResponse
```

### See Also:

ServletResponse.setBufferSize(int), ServletResponse.getBufferSize(),
ServletResponse.flushBuffer(), ServletResponse.isCommitted()

## resetBuffer

```
public void resetBuffer()
```

The default behavior of this method is to call resetBuffer() on the wrapped response object.

### **Specified by:**

resetBuffer in interface ServletResponse

#### See Also:

ServletResponse.setBufferSize(int), ServletResponse.getBufferSize(),
ServletResponse.isCommitted(), ServletResponse.reset()

# setLocale

```
public void setLocale(java.util.Locale loc)
```

The default behavior of this method is to call setLocale(Locale loc) on the wrapped response object.

# Specified by:

setLocale in interface ServletResponse

#### **Parameters:**

loc - the locale of the response

# See Also:

ServletResponse.getLocale(), ServletResponse.setContentType(java.lang.String),
ServletResponse.setCharacterEncoding(java.lang.String)

# getLocale

```
public java.util.Locale getLocale()
```

The default behavior of this method is to return getLocale() on the wrapped response object.

# Specified by:

getLocale in interface ServletResponse

### See Also:

ServletResponse.setLocale(java.util.Locale)

# is Wrapper For

```
public boolean isWrapperFor(ServletResponse wrapped)
```

Checks (recursively) if this ServletResponseWrapper wraps the given ServletResponse instance.

#### **Parameters:**

wrapped - the ServletResponse instance to search for

#### **Returns:**

true if this ServletResponseWrapper wraps the given ServletResponse instance, false otherwise

### Since:

Servlet 3.0

# isWrapperFor

public boolean isWrapperFor(java.lang.Class wrappedType)

Checks (recursively) if this ServletResponseWrapper wraps a ServletResponse of the given class type.

### **Parameters:**

wrappedType - the ServletResponse class type to search for

### **Returns:**

true if this ServletResponseWrapper wraps a ServletResponse of the given class type, false otherwise

### **Throws:**

IllegalArgumentException - if the given class does not implement ServletResponse

# Since:

Servlet 3.0

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#### javax.servlet

# Class ServletSecurityElement

java.lang.Object

└ javax.servlet.HttpConstraintElement

 $ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}}$  javax.servlet.ServletSecurityElement

public class ServletSecurityElement
extends HttpConstraintElement

Java Class represntation of a ServletSecurity annotation value.

#### Since:

Servlet 3.0

# **Constructor Summary**

### ServletSecurityElement()

Constructs an instance using the default HttpConstraintElement value as the default Constraint element and with no HTTP Method specific constraint elements.

ServletSecurityElement() java.util.Collection<httpMethodConstraintElement> methodConstraints)

Constructs an instance using the default HttpConstraintElement value as the default Constraint element and with a collection of HTTP Method specific constraint elements.

ServletSecurityElement(HttpConstraintElement constraint)

Constructs an instance with a default Constraint element and with no HTTP Method specific constraint elements.

ServletSecurityElement(HttpConstraintElement constraint,

java.util.Collection<HttpMethodConstraintElement> methodConstraints)

Constructs an instance with a default Constraint element and with a collection of HTTP Method specific constraint elements.

ServletSecurityElement(ServletSecurity annotation)

Constructs an instance from a ServletSecurity annotation value.

# Method Summary

java.util.Collection<HttpMethodConstraintElement>
GetHttpM

getHttpMethodConstraints()

Gets the (possibly empty) collection of HTTP Method specific constraint elements.

java.util.Collection<java.lang.String>

getMethodNames()

Gets the set of HTTP method names named by the HttpMethodConstraints.

#### Methods inherited from class javax.servlet.HttpConstraintElement

getEmptyRoleSemantic, getRolesAllowed, getTransportGuarantee

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

# **Constructor Detail**

# ServletSecurityElement

public ServletSecurityElement()

Constructs an instance using the default HttpConstraintElement value as the default Constraint element and with no HTTP Method specific constraint elements.

# ServletSecurityElement

public ServletSecurityElement(HttpConstraintElement constraint)

Constructs an instance with a default Constraint element and with no HTTP Method specific constraint elements.

#### **Parameters:**

constraint - the HttpConstraintElement to be applied to all HTTP methods other than those represented in the methodConstraints

# ServletSecurityElement

 $\verb|public ServletSecurityElement| (java.util.Collection < \\ \underline{\texttt{HttpMethodConstraintElement}} > \\ \texttt{methodConstraints})|$ 

Constructs an instance using the default HttpConstraintElement value as the default Constraint element and with a collection of HTTP Method specific constraint elements.

#### **Parameters:**

 ${\tt methodConstraints-the\ collection\ of\ HTTP\ method\ specific\ constraint\ elements}$ 

#### **Throws:**

IllegalArgumentException - if duplicate method names are detected

# ServletSecurityElement

Constructs an instance with a default Constraint element and with a collection of HTTP Method specific constraint elements.

### **Parameters:**

 ${\tt constraint-the\ HttpConstraintElement\ to\ be\ applied\ to\ all\ HTTP\ methods\ other\ than\ those\ represented}$  in the  ${\tt methodConstraints}$ 

methodConstraints - the collection of HTTP method specific constraint elements.

#### **Throws:**

IllegalArgumentException - if duplicate method names are detected

# ServletSecurityElement

public ServletSecurityElement(ServletSecurity annotation)

Constructs an instance from a ServletSecurity annotation value.

#### **Parameters:**

annotation - the annotation value

#### **Throws:**

IllegalArgumentException - if duplicate method names are detected

# **Method Detail**

# getHttpMethodConstraints

public java.util.Collection<HttpMethodConstraintElement> getHttpMethodConstraints()

Gets the (possibly empty) collection of HTTP Method specific constraint elements.

If permitted, any changes to the returned Collection must not affect this ServletSecurityElement.

#### **Returns:**

the (possibly empty) collection of HttpMethodConstraintElement objects

# getMethodNames

public java.util.Collection<java.lang.String> getMethodNames()

Gets the set of HTTP method names named by the HttpMethodConstraints.

If permitted, any changes to the returned Collection must not affect this ServletSecurityElement.

### **Returns:**

the collection String method names

# Overview Package Class Tree Deprecated Index Help

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SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD

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# Overview Package Class Tree Deprecated Index Help

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javax.servlet

# Interface SessionCookieConfig

public interface SessionCookieConfig

Class that may be used to configure various properties of cookies used for session tracking purposes.

An instance of this class is acquired by a call to ServletContext#getSessionCookieConfig.

# Since:

Servlet 3.0

| Method Sun       | nmary   |
|------------------|---|
| java.lang.String | Gets the comment that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.   |
| java.lang.String | Gets the domain name that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.   |
| int              | Gets the lifetime (in seconds) of the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.   |
| java.lang.String | Gets the name that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.  |
| java.lang.String | Gets the path that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.  |
| boolean          | Checks if the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired will be marked as <i>HttpOnly</i> .  |
| boolean          | Checks if the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired will be marked as <i>secure</i> even if the request that initiated the corresponding session is using plain HTTP instead of HTTPS. |

| void | Sets the comment that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.  |
|------|--|
| void | SetDomain (java.lang.String domain)  Sets the domain name that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired. |
| void | Marks or unmarks the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired as HttpOnly.   |
| void | Sets the lifetime (in seconds) for the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.   |
| void | Sets the name that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.   |
| void | Sets the path that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.   |
| void | Marks or unmarks the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired as secure.   |

# **Method Detail**

# setName

void setName(java.lang.String name)

Sets the name that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.

NOTE: Changing the name of session tracking cookies may break other tiers (for example, a load balancing frontend) that assume the cookie name to be equal to the default JSESSIONID, and therefore should only be done cautiously.

### **Parameters:**

name - the cookie name to use

#### **Throws:**

 ${\tt IllegalStateException-if the ServletContext from which this SessionCookieConfigwas acquired has already been initialized}$ 

# **getName**

```
java.lang.String getName()
```

Gets the name that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.

By default, JSESSIONID will be used as the cookie name.

#### **Returns:**

the cookie name set via setName(java.lang.String), or null if
setName(java.lang.String) was never called

#### See Also:

Cookie.getName()

# setDomain

```
void setDomain(java.lang.String domain)
```

Sets the domain name that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.

#### **Parameters:**

domain - the cookie domain to use

### **Throws:**

IllegalStateException - if the ServletContext from which this SessionCookieConfig was acquired has already been initialized

#### See Also:

Cookie.setDomain(String)

# getDomain

```
java.lang.String getDomain()
```

Gets the domain name that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.

#### **Returns:**

the cookie domain set via setDomain(java.lang.String), or null if setDomain(java.lang.String) was never called

#### See Also:

Cookie.getDomain()

### setPath

```
void setPath(java.lang.String path)
```

Sets the path that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.

#### **Parameters:**

path - the cookie path to use

#### **Throws:**

IllegalStateException - if the ServletContext from which this SessionCookieConfig was acquired has already been initialized

#### See Also:

Cookie.setPath(String)

# getPath

```
java.lang.String getPath()
```

Gets the path that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.

By default, the context path of the ServletContext from which this SessionCookieConfig was acquired will be used.

#### **Returns:**

the cookie path set via setPath(java.lang.String), or null if setPath(java.lang.String) was never called

### See Also:

Cookie.getPath()

### setComment

```
void setComment(java.lang.String comment)
```

Sets the comment that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.

As a side effect of this call, the session tracking cookies will be marked with a Version attribute equal to 1.

# **Parameters:**

comment - the cookie comment to use

# **Throws:**

IllegalStateException - if the ServletContext from which this SessionCookieConfig was acquired has already been initialized

#### See Also:

Cookie.setComment(String), Cookie.getVersion()

# getComment

```
java.lang.String getComment()
```

Gets the comment that will be assigned to any session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.

#### **Returns:**

the cookie comment set via setComment(java.lang.String), or null if setComment(java.lang.String) was never called

### See Also:

Cookie.getComment()

# setHttpOnly

```
void setHttpOnly(boolean httpOnly)
```

Marks or unmarks the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired as *HttpOnly*.

A cookie is marked as HttpOnly by adding the HttpOnly attribute to it. *HttpOnly* cookies are not supposed to be exposed to client-side scripting code, and may therefore help mitigate certain kinds of cross-site scripting attacks.

#### **Parameters:**

httponly - true if the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired shall be marked as *HttpOnly*, false otherwise

#### **Throws:**

 ${\tt IllegalStateException - if the ServletContext from which this SessionCookieConfigwas acquired has already been initialized}$ 

# See Also:

Cookie.setHttpOnly(boolean)

# isHttpOnly

```
boolean isHttpOnly()
```

Checks if the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired will be marked as *HttpOnly*.

### **Returns:**

true if the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired will be marked as *HttpOnly*, false otherwise

# See Also:

Cookie.isHttpOnly()

# setSecure

void setSecure(boolean secure)

Marks or unmarks the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired as *secure*.

One use case for marking a session tracking cookie as secure, even though the request that initiated the session came over HTTP, is to support a topology where the web container is front-ended by an SSL offloading load balancer. In this case, the traffic between the client and the load balancer will be over HTTPS, whereas the traffic between the load balancer and the web container will be over HTTP.

### **Parameters:**

secure - true if the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired shall be marked as *secure* even if the request that initiated the corresponding session is using plain HTTP instead of HTTPS, and false if they shall be marked as *secure* only if the request that initiated the corresponding session was also secure

#### **Throws:**

IllegalStateException - if the ServletContext from which this SessionCookieConfig was acquired has already been initialized

#### See Also:

Cookie.setSecure(boolean), ServletRequest#isSecure()

# isSecure

boolean isSecure()

Checks if the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired will be marked as *secure* even if the request that initiated the corresponding session is using plain HTTP instead of HTTPS.

#### **Returns:**

true if the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired will be marked as *secure* even if the request that initiated the corresponding session is using plain HTTP instead of HTTPS, and false if they will be marked as *secure* only if the request that initiated the corresponding session was also secure

### See Also:

Cookie.getSecure(), ServletRequest#isSecure()

# setMaxAge

void setMaxAge(int maxAge)

Sets the lifetime (in seconds) for the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.

#### **Parameters:**

maxAge - the lifetime (in seconds) of the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.

# **Throws:**

IllegalStateException - if the ServletContext from which this SessionCookieConfig

was acquired has already been initialized

# See Also:

Cookie.setMaxAge(int)

# getMaxAge

int getMaxAge()

Gets the lifetime (in seconds) of the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired.

By default, -1 is returned.

# **Returns:**

the lifetime (in seconds) of the session tracking cookies created on behalf of the application represented by the ServletContext from which this SessionCookieConfig was acquired, or -1 (the default)

# See Also:

Cookie.getMaxAge()

# Overview Package Class Tree Deprecated Index Help

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DETAIL: ENUM CONSTANTS | FIELD | METHOD

# javax.servlet

# **Enum SessionTrackingMode**

# **All Implemented Interfaces:**

java.io.Serializable, java.lang.Comparable<SessionTrackingMode>

public enum SessionTrackingMode
extends java.lang.Enum<SessionTrackingMode>

Enumeration of session tracking modes.

#### Since:

Servlet 3.0

| Enum Constant Summary |  |
|-----------------------|--|
| COOKIE                |  |
| <u>ssl</u>            |  |
| URL                   |  |

| Method Summary                    |  |  |
|-----------------------------------|--|--|
| static <u>SessionTrackingMode</u> | walueOf(java.lang.String name)  Returns the enum constant of this type with the specified name.        |  |
| static SessionTrackingMode[]      | values()  Returns an array containing the constants of this enum type, in the order they are declared. |  |

# Methods inherited from class java.lang.Enum

clone, compareTo, equals, finalize, getDeclaringClass, hashCode, name, ordinal,
toString, valueOf

# Methods inherited from class java.lang.Object

getClass, notify, notifyAll, wait, wait, wait

# **Enum Constant Detail**

# **COOKIE**

public static final SessionTrackingMode COOKIE

### **URL**

public static final SessionTrackingMode URL

# **SSL**

public static final SessionTrackingMode SSL

# **Method Detail**

### values

```
public static SessionTrackingMode[] values()
```

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

```
for (SessionTrackingMode c : SessionTrackingMode.values())
    System.out.println(c);
```

# **Returns:**

an array containing the constants of this enum type, in the order they are declared

# valueOf

```
public static SessionTrackingMode valueOf(java.lang.String name)
```

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

### **Parameters:**

name - the name of the enum constant to be returned.

### **Returns:**

the enum constant with the specified name

# **Throws:**

IllegalArgumentException - if this enum type has no constant with the specified name java.lang.NullPointerException - if the argument is null

# Overview Package Class Tree Deprecated Index Help

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DETAIL: ENUM CONSTANTS | FIELD | METHOD

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DETAIL: FIELD | CONSTR | METHOD

# javax.servlet

# **Interface SingleThreadModel**

**Deprecated.** As of Java Servlet API 2.4, with no direct replacement.

public interface SingleThreadModel

Ensures that servlets handle only one request at a time. This interface has no methods.

If a servlet implements this interface, you are *guaranteed* that no two threads will execute concurrently in the servlet's service method. The servlet container can make this guarantee by synchronizing access to a single instance of the servlet, or by maintaining a pool of servlet instances and dispatching each new request to a free servlet.

Note that SingleThreadModel does not solve all thread safety issues. For example, session attributes and static variables can still be accessed by multiple requests on multiple threads at the same time, even when SingleThreadModel servlets are used. It is recommended that a developer take other means to resolve those issues instead of implementing this interface, such as avoiding the usage of an instance variable or synchronizing the block of the code accessing those resources. This interface is deprecated in Servlet API version 2.4.

#### **Author:**

Various

### Overview Package Class Tree Deprecated Index Help

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DETAIL: FIELD | CONSTR | METHOD

## javax.servlet

# **Class UnavailableException**

# **All Implemented Interfaces:**

java.io.Serializable

```
public class UnavailableException
extends ServletException
```

Defines an exception that a servlet or filter throws to indicate that it is permanently or temporarily unavailable.

When a servlet or filter is permanently unavailable, something is wrong with it, and it cannot handle requests until some action is taken. For example, a servlet might be configured incorrectly, or a filter's state may be corrupted. The component should log both the error and the corrective action that is needed.

A servlet or filter is temporarily unavailable if it cannot handle requests momentarily due to some system-wide problem. For example, a third-tier server might not be accessible, or there may be insufficient memory or disk storage to handle requests. A system administrator may need to take corrective action.

Servlet containers can safely treat both types of unavailable exceptions in the same way. However, treating temporary unavailability effectively makes the servlet container more robust. Specifically, the servlet container might block requests to the servlet or filter for a period of time suggested by the exception, rather than rejecting them until the servlet container restarts.

# **Author:**

Various

#### See Also:

Serialized Form

# **Constructor Summary**

```
UnavailableException(int seconds, Servlet servlet, java.lang.String msg)
```

**Deprecated.** As of Java Servlet API 2.2, use <u>UnavailableException(String, int)</u> instead.

UnavailableException(Servlet servlet, java.lang.String msg)

**Deprecated.** As of Java Servlet API 2.2, use <u>UnavailableException(String)</u> instead.

UnavailableException(java.lang.String msg)

Constructs a new exception with a descriptive message indicating that the servlet is permanently unavailable.

```
UnavailableException(java.lang.String msg, int seconds)
```

Constructs a new exception with a descriptive message indicating that the servlet is temporarily unavailable and giving an estimate of how long it will be unavailable.

| Method Summary |   |  |
|----------------|---|--|
| Servlet        | <b>Deprecated.</b> As of Java Servlet API 2.2, with no replacement. Returns the servlet that is reporting its unavailability. |  |
| int            | getUnavailableSeconds ()  Returns the number of seconds the servlet expects to be temporarily unavailable.                    |  |
| boolean        | Returns a boolean indicating whether the servlet is permanently unavailable.  |  |

# Methods inherited from class javax.servlet.ServletException

getRootCause

# Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

# **Constructor Detail**

# UnavailableException

```
\begin{array}{c} \text{public } \textbf{UnavailableException}(\underline{\text{Servlet}} \text{ servlet,} \\ \\ \text{java.lang.String msg}) \end{array}
```

**Deprecated.** As of Java Servlet API 2.2, use <u>UnavailableException(String)</u> instead.

#### **Parameters:**

 ${\tt msg-a String specifying the descriptive message}$ 

# UnavailableException

```
\begin{array}{c} \text{public $U$navailableException}(\text{int seconds},\\ & \underline{\frac{\text{Servlet}}{\text{java.lang.String msg}}} \end{array}
```

**Deprecated.** As of Java Servlet API 2.2, use <u>UnavailableException(String, int)</u> instead.

#### **Parameters:**

seconds - an integer specifying the number of seconds the servlet expects to be unavailable; if zero or negative, indicates that the servlet can't make an estimate

servlet - the Servlet that is unavailable msg - a String specifying the descriptive message, which can be written to a log file or displayed for the user.

# UnavailableException

```
public UnavailableException(java.lang.String msg)
```

Constructs a new exception with a descriptive message indicating that the servlet is permanently unavailable.

#### **Parameters:**

msg - a String specifying the descriptive message

# UnavailableException

Constructs a new exception with a descriptive message indicating that the servlet is temporarily unavailable and giving an estimate of how long it will be unavailable.

In some cases, the servlet cannot make an estimate. For example, the servlet might know that a server it needs is not running, but not be able to report how long it will take to be restored to functionality. This can be indicated with a negative or zero value for the seconds argument.

### **Parameters:**

msg - a string specifying the descriptive message, which can be written to a log file or displayed for the user.

seconds - an integer specifying the number of seconds the servlet expects to be unavailable; if zero or negative, indicates that the servlet can't make an estimate

# **Method Detail**

# **isPermanent**

```
public boolean isPermanent()
```

Returns a boolean indicating whether the servlet is permanently unavailable. If so, something is wrong with the servlet, and the system administrator must take some corrective action.

#### **Returns:**

true if the servlet is permanently unavailable; false if the servlet is available or temporarily unavailable

# getServlet

```
public Servlet getServlet()
```

**Deprecated.** As of Java Servlet API 2.2, with no replacement. Returns the servlet that is reporting

its unavailability.

# **Returns:**

the Servlet object that is throwing the Unavailable Exception

# get Unavailable Seconds

public int getUnavailableSeconds()

Returns the number of seconds the servlet expects to be temporarily unavailable.

If this method returns a negative number, the servlet is permanently unavailable or cannot provide an estimate of how long it will be unavailable. No effort is made to correct for the time elapsed since the exception was first reported.

# **Returns:**

an integer specifying the number of seconds the servlet will be temporarily unavailable, or a negative number if the servlet is permanently unavailable or cannot make an estimate

# Overview Package Class Tree Deprecated Index Help

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