| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ServiceDelegate.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/xml/ws/spi/Provider.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?javax/xml/ws/spi/ServiceDelegate.html)    [**NO FRAMES**](http://docs.google.com/ServiceDelegate.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **javax.xml.ws.spi**

Class ServiceDelegate

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.xml.ws.spi.ServiceDelegate**

public abstract class **ServiceDelegate**extends [Object](http://docs.google.com/java/lang/Object.html)

Service delegates are used internally by Service objects to allow pluggability of JAX-WS implementations.

Every Service object has its own delegate, created using the javax.xml.ws.Provider#createServiceDelegate method. A Service object delegates all of its instance methods to its delegate.

**Since:** JAX-WS 2.0 **See Also:**[Service](http://docs.google.com/javax/xml/ws/Service.html), [Provider](http://docs.google.com/javax/xml/ws/spi/Provider.html)

| **Constructor Summary** | |
| --- | --- |
| protected | [**ServiceDelegate**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#ServiceDelegate())() |

| **Method Summary** | |
| --- | --- |
| abstract  void | [**addPort**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#addPort(javax.xml.namespace.QName,%20java.lang.String,%20java.lang.String))([QName](http://docs.google.com/javax/xml/namespace/QName.html) portName, [String](http://docs.google.com/java/lang/String.html) bindingId, [String](http://docs.google.com/java/lang/String.html) endpointAddress)            Creates a new port for the service. |
| abstract   | <T> [Dispatch](http://docs.google.com/javax/xml/ws/Dispatch.html)<T> | | --- | | [**createDispatch**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#createDispatch(javax.xml.namespace.QName,%20java.lang.Class,%20javax.xml.ws.Service.Mode))([QName](http://docs.google.com/javax/xml/namespace/QName.html) portName, [Class](http://docs.google.com/java/lang/Class.html)<T> type, [Service.Mode](http://docs.google.com/javax/xml/ws/Service.Mode.html) mode)            Creates a Dispatch instance for use with objects of the users choosing. |
| abstract  [Dispatch](http://docs.google.com/javax/xml/ws/Dispatch.html)<[Object](http://docs.google.com/java/lang/Object.html)> | [**createDispatch**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#createDispatch(javax.xml.namespace.QName,%20javax.xml.bind.JAXBContext,%20javax.xml.ws.Service.Mode))([QName](http://docs.google.com/javax/xml/namespace/QName.html) portName, [JAXBContext](http://docs.google.com/javax/xml/bind/JAXBContext.html) context, [Service.Mode](http://docs.google.com/javax/xml/ws/Service.Mode.html) mode)            Creates a Dispatch instance for use with JAXB generated objects. |
| abstract  [Executor](http://docs.google.com/java/util/concurrent/Executor.html) | [**getExecutor**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#getExecutor())()            Returns the executor for this Serviceinstance. |
| abstract  [HandlerResolver](http://docs.google.com/javax/xml/ws/handler/HandlerResolver.html) | [**getHandlerResolver**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#getHandlerResolver())()            Returns the configured handler resolver. |
| abstract   | <T> T | | --- | | [**getPort**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#getPort(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<T> serviceEndpointInterface)            The getPort method returns a stub. |
| abstract   | <T> T | | --- | | [**getPort**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#getPort(javax.xml.namespace.QName,%20java.lang.Class))([QName](http://docs.google.com/javax/xml/namespace/QName.html) portName, [Class](http://docs.google.com/java/lang/Class.html)<T> serviceEndpointInterface)            The getPort method returns a stub. |
| abstract  [Iterator](http://docs.google.com/java/util/Iterator.html)<[QName](http://docs.google.com/javax/xml/namespace/QName.html)> | [**getPorts**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#getPorts())()            Returns an Iterator for the list of QNames of service endpoints grouped by this service |
| abstract  [QName](http://docs.google.com/javax/xml/namespace/QName.html) | [**getServiceName**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#getServiceName())()            Gets the name of this service. |
| abstract  [URL](http://docs.google.com/java/net/URL.html) | [**getWSDLDocumentLocation**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#getWSDLDocumentLocation())()            Gets the location of the WSDL document for this Service. |
| abstract  void | [**setExecutor**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#setExecutor(java.util.concurrent.Executor))([Executor](http://docs.google.com/java/util/concurrent/Executor.html) executor)            Sets the executor for this Service instance. |
| abstract  void | [**setHandlerResolver**](http://docs.google.com/javax/xml/ws/spi/ServiceDelegate.html#setHandlerResolver(javax.xml.ws.handler.HandlerResolver))([HandlerResolver](http://docs.google.com/javax/xml/ws/handler/HandlerResolver.html) handlerResolver)            Sets the HandlerResolver for this Service instance. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### ServiceDelegate

protected **ServiceDelegate**()

| **Method Detail** |
| --- |

### getPort

public abstract <T> T **getPort**([QName](http://docs.google.com/javax/xml/namespace/QName.html) portName,  
 [Class](http://docs.google.com/java/lang/Class.html)<T> serviceEndpointInterface)

The getPort method returns a stub. A service client uses this stub to invoke operations on the target service endpoint. The serviceEndpointInterface specifies the service endpoint interface that is supported by the created dynamic proxy or stub instance.

**Parameters:**portName - Qualified name of the service endpoint in the WSDL service descriptionserviceEndpointInterface - Service endpoint interface supported by the dynamic proxy or stub instance **Returns:**Object Proxy instance that supports the specified service endpoint interface **Throws:** WebServiceException - This exception is thrown in the following cases:

* If there is an error in creation of the proxy
* If there is any missing WSDL metadata as required by this method
* Optionally, if an illegal serviceEndpointInterface or portName is specified

**See Also:**[Proxy](http://docs.google.com/java/lang/reflect/Proxy.html), [InvocationHandler](http://docs.google.com/java/lang/reflect/InvocationHandler.html)

### getPort

public abstract <T> T **getPort**([Class](http://docs.google.com/java/lang/Class.html)<T> serviceEndpointInterface)

The getPort method returns a stub. The parameter serviceEndpointInterface specifies the service endpoint interface that is supported by the returned proxy. In the implementation of this method, the JAX-WS runtime system takes the responsibility of selecting a protocol binding (and a port) and configuring the proxy accordingly. The returned proxy should not be reconfigured by the client.

**Parameters:**serviceEndpointInterface - Service endpoint interface **Returns:**Object instance that supports the specified service endpoint interface **Throws:** WebServiceException -

* If there is an error during creation of the proxy
* If there is any missing WSDL metadata as required by this method
* Optionally, if an illegal serviceEndpointInterface is specified

### addPort

public abstract void **addPort**([QName](http://docs.google.com/javax/xml/namespace/QName.html) portName,  
 [String](http://docs.google.com/java/lang/String.html) bindingId,  
 [String](http://docs.google.com/java/lang/String.html) endpointAddress)

Creates a new port for the service. Ports created in this way contain no WSDL port type information and can only be used for creating Dispatchinstances.

**Parameters:**portName - Qualified name for the target service endpointbindingId - A URI identifier of a binding.endpointAddress - Address of the target service endpoint as a URI **Throws:** WebServiceException - If any error in the creation of the port**See Also:**[SOAPBinding.SOAP11HTTP\_BINDING](http://docs.google.com/javax/xml/ws/soap/SOAPBinding.html#SOAP11HTTP_BINDING), [SOAPBinding.SOAP12HTTP\_BINDING](http://docs.google.com/javax/xml/ws/soap/SOAPBinding.html#SOAP12HTTP_BINDING), [HTTPBinding.HTTP\_BINDING](http://docs.google.com/javax/xml/ws/http/HTTPBinding.html#HTTP_BINDING)

### createDispatch

public abstract <T> [Dispatch](http://docs.google.com/javax/xml/ws/Dispatch.html)<T> **createDispatch**([QName](http://docs.google.com/javax/xml/namespace/QName.html) portName,  
 [Class](http://docs.google.com/java/lang/Class.html)<T> type,  
 [Service.Mode](http://docs.google.com/javax/xml/ws/Service.Mode.html) mode)

Creates a Dispatch instance for use with objects of the users choosing.

**Parameters:**portName - Qualified name for the target service endpointtype - The class of object used to messages or message payloads. Implementations are required to support javax.xml.transform.Source and javax.xml.soap.SOAPMessage.mode - Controls whether the created dispatch instance is message or payload oriented, i.e. whether the user will work with complete protocol messages or message payloads. E.g. when using the SOAP protocol, this parameter controls whether the user will work with SOAP messages or the contents of a SOAP body. Mode must be MESSAGE when type is SOAPMessage. **Returns:**Dispatch instance **Throws:** WebServiceException - If any error in the creation of the Dispatch object**See Also:**[Source](http://docs.google.com/javax/xml/transform/Source.html), [SOAPMessage](http://docs.google.com/javax/xml/soap/SOAPMessage.html)

### createDispatch

public abstract [Dispatch](http://docs.google.com/javax/xml/ws/Dispatch.html)<[Object](http://docs.google.com/java/lang/Object.html)> **createDispatch**([QName](http://docs.google.com/javax/xml/namespace/QName.html) portName,  
 [JAXBContext](http://docs.google.com/javax/xml/bind/JAXBContext.html) context,  
 [Service.Mode](http://docs.google.com/javax/xml/ws/Service.Mode.html) mode)

Creates a Dispatch instance for use with JAXB generated objects.

**Parameters:**portName - Qualified name for the target service endpointcontext - The JAXB context used to marshall and unmarshall messages or message payloads.mode - Controls whether the created dispatch instance is message or payload oriented, i.e. whether the user will work with complete protocol messages or message payloads. E.g. when using the SOAP protocol, this parameter controls whether the user will work with SOAP messages or the contents of a SOAP body. **Returns:**Dispatch instance **Throws:** ServiceException - If any error in the creation of the Dispatch object**See Also:**[JAXBContext](http://docs.google.com/javax/xml/bind/JAXBContext.html)

### getServiceName

public abstract [QName](http://docs.google.com/javax/xml/namespace/QName.html) **getServiceName**()

Gets the name of this service.

**Returns:**Qualified name of this service

### getPorts

public abstract [Iterator](http://docs.google.com/java/util/Iterator.html)<[QName](http://docs.google.com/javax/xml/namespace/QName.html)> **getPorts**()

Returns an Iterator for the list of QNames of service endpoints grouped by this service

**Returns:**Returns java.util.Iterator with elements of type javax.xml.namespace.QName **Throws:** WebServiceException - If this Service class does not have access to the required WSDL metadata

### getWSDLDocumentLocation

public abstract [URL](http://docs.google.com/java/net/URL.html) **getWSDLDocumentLocation**()

Gets the location of the WSDL document for this Service.

**Returns:**URL for the location of the WSDL document for this service

### getHandlerResolver

public abstract [HandlerResolver](http://docs.google.com/javax/xml/ws/handler/HandlerResolver.html) **getHandlerResolver**()

Returns the configured handler resolver.

**Returns:**HandlerResolver The HandlerResolver being used by this Service instance, or null if there isn't one.

### setHandlerResolver

public abstract void **setHandlerResolver**([HandlerResolver](http://docs.google.com/javax/xml/ws/handler/HandlerResolver.html) handlerResolver)

Sets the HandlerResolver for this Service instance.

The handler resolver, if present, will be called once for each proxy or dispatch instance that is created, and the handler chain returned by the resolver will be set on the instance.

**Parameters:**handlerResolver - The HandlerResolver to use for all subsequently created proxy/dispatch objects.**See Also:**[HandlerResolver](http://docs.google.com/javax/xml/ws/handler/HandlerResolver.html)

### getExecutor

public abstract [Executor](http://docs.google.com/java/util/concurrent/Executor.html) **getExecutor**()

Returns the executor for this Serviceinstance. The executor is used for all asynchronous invocations that require callbacks.

**Returns:**The java.util.concurrent.Executor to be used to invoke a callback.**See Also:**[Executor](http://docs.google.com/java/util/concurrent/Executor.html)

### setExecutor

public abstract void **setExecutor**([Executor](http://docs.google.com/java/util/concurrent/Executor.html) executor)

Sets the executor for this Service instance. The executor is used for all asynchronous invocations that require callbacks.

**Parameters:**executor - The java.util.concurrent.Executor to be used to invoke a callback. **Throws:** [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - If the instance does not support setting an executor for security reasons (e.g. the necessary permissions are missing).**See Also:**[Executor](http://docs.google.com/java/util/concurrent/Executor.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ServiceDelegate.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/xml/ws/spi/Provider.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?javax/xml/ws/spi/ServiceDelegate.html)    [**NO FRAMES**](http://docs.google.com/ServiceDelegate.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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