| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Servant.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/org/omg/PortableServer/RequestProcessingPolicyValue.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/PortableServer/SERVANT_RETENTION_POLICY_ID.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/PortableServer/Servant.html)    [**NO FRAMES**](http://docs.google.com/Servant.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **org.omg.PortableServer**

Class Servant

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **org.omg.PortableServer.Servant**

**Direct Known Subclasses:** [BindingIteratorPOA](http://docs.google.com/org/omg/CosNaming/BindingIteratorPOA.html), [DynamicImplementation](http://docs.google.com/org/omg/PortableServer/DynamicImplementation.html), [NamingContextExtPOA](http://docs.google.com/org/omg/CosNaming/NamingContextExtPOA.html), [NamingContextPOA](http://docs.google.com/org/omg/CosNaming/NamingContextPOA.html), [ServantActivatorPOA](http://docs.google.com/org/omg/PortableServer/ServantActivatorPOA.html), [ServantLocatorPOA](http://docs.google.com/org/omg/PortableServer/ServantLocatorPOA.html)

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

Defines the native Servant type. In Java, the Servant type is mapped to the Java org.omg.PortableServer.Servant class. It serves as the base class for all POA servant implementations and provides a number of methods that may be invoked by the application programmer, as well as methods which are invoked by the POA itself and may be overridden by the user to control aspects of servant behavior. Based on IDL to Java spec. (CORBA V2.3.1) ptc/00-01-08.pdf.

| **Constructor Summary** | |
| --- | --- |
| [**Servant**](http://docs.google.com/org/omg/PortableServer/Servant.html#Servant())() |

| **Method Summary** | |
| --- | --- |
| abstract  [String](http://docs.google.com/java/lang/String.html)[] | [**\_all\_interfaces**](http://docs.google.com/org/omg/PortableServer/Servant.html#_all_interfaces(org.omg.PortableServer.POA,%20byte%5B%5D))([POA](http://docs.google.com/org/omg/PortableServer/POA.html) poa, byte[] objectId)            Used by the ORB to obtain complete type information from the servant. |
| [POA](http://docs.google.com/org/omg/PortableServer/POA.html) | [**\_default\_POA**](http://docs.google.com/org/omg/PortableServer/Servant.html#_default_POA())()            Returns the root POA from the ORB instance associated with the servant. |
| [Delegate](http://docs.google.com/org/omg/PortableServer/portable/Delegate.html) | [**\_get\_delegate**](http://docs.google.com/org/omg/PortableServer/Servant.html#_get_delegate())()            Gets the ORB vendor-specific implementation of PortableServer::Servant. |
| [Object](http://docs.google.com/org/omg/CORBA/Object.html) | [**\_get\_interface\_def**](http://docs.google.com/org/omg/PortableServer/Servant.html#_get_interface_def())()            Returns an InterfaceDef object as a CORBA::Object that defines the runtime type of the CORBA::Object implemented by the Servant. |
| boolean | [**\_is\_a**](http://docs.google.com/org/omg/PortableServer/Servant.html#_is_a(java.lang.String))([String](http://docs.google.com/java/lang/String.html) repository\_id)            Checks to see if the specified repository\_id is present on the list returned by \_all\_interfaces() or is the repository\_id for the generic CORBA Object. |
| boolean | [**\_non\_existent**](http://docs.google.com/org/omg/PortableServer/Servant.html#_non_existent())()            Checks for the existence of an Object. |
| byte[] | [**\_object\_id**](http://docs.google.com/org/omg/PortableServer/Servant.html#_object_id())()            Allows easy execution of common methods, equivalent to calling PortableServer::Current::get\_object\_id. |
| [ORB](http://docs.google.com/org/omg/CORBA/ORB.html) | [**\_orb**](http://docs.google.com/org/omg/PortableServer/Servant.html#_orb())()            Returns the instance of the ORB currently associated with the Servant (convenience method). |
| [POA](http://docs.google.com/org/omg/PortableServer/POA.html) | [**\_poa**](http://docs.google.com/org/omg/PortableServer/Servant.html#_poa())()            Allows easy execution of common methods, equivalent to PortableServer::Current:get\_POA. |
| void | [**\_set\_delegate**](http://docs.google.com/org/omg/PortableServer/Servant.html#_set_delegate(org.omg.PortableServer.portable.Delegate))([Delegate](http://docs.google.com/org/omg/PortableServer/portable/Delegate.html) delegate)            Supports the Java ORB portability interfaces by providing a method for classes that support ORB portability through delegation to set their delegate. |
| [Object](http://docs.google.com/org/omg/CORBA/Object.html) | [**\_this\_object**](http://docs.google.com/org/omg/PortableServer/Servant.html#_this_object())()            Allows the servant to obtain the object reference for the target CORBA object it is incarnating for that request. |
| [Object](http://docs.google.com/org/omg/CORBA/Object.html) | [**\_this\_object**](http://docs.google.com/org/omg/PortableServer/Servant.html#_this_object(org.omg.CORBA.ORB))([ORB](http://docs.google.com/org/omg/CORBA/ORB.html) orb)            Allows the servant to obtain the object reference for the target CORBA Object it is incarnating for that request. |

| **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** |
| --- |

### Servant

public **Servant**()

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

### \_get\_delegate

public final [Delegate](http://docs.google.com/org/omg/PortableServer/portable/Delegate.html) **\_get\_delegate**()

Gets the ORB vendor-specific implementation of PortableServer::Servant.

**Returns:**\_delegate the ORB vendor-specific implementation of PortableServer::Servant.

### \_set\_delegate

public final void **\_set\_delegate**([Delegate](http://docs.google.com/org/omg/PortableServer/portable/Delegate.html) delegate)

Supports the Java ORB portability interfaces by providing a method for classes that support ORB portability through delegation to set their delegate.

**Parameters:**delegate - ORB vendor-specific implementation of the PortableServer::Servant.

### \_this\_object

public final [Object](http://docs.google.com/org/omg/CORBA/Object.html) **\_this\_object**()

Allows the servant to obtain the object reference for the target CORBA object it is incarnating for that request.

**Returns:**this\_object Object reference associated with the request.

### \_this\_object

public final [Object](http://docs.google.com/org/omg/CORBA/Object.html) **\_this\_object**([ORB](http://docs.google.com/org/omg/CORBA/ORB.html) orb)

Allows the servant to obtain the object reference for the target CORBA Object it is incarnating for that request.

**Parameters:**orb - ORB with which the servant is associated. **Returns:**\_this\_object reference associated with the request.

### \_orb

public final [ORB](http://docs.google.com/org/omg/CORBA/ORB.html) **\_orb**()

Returns the instance of the ORB currently associated with the Servant (convenience method).

**Returns:**orb the instance of the ORB currently associated with the Servant.

### \_poa

public final [POA](http://docs.google.com/org/omg/PortableServer/POA.html) **\_poa**()

Allows easy execution of common methods, equivalent to PortableServer::Current:get\_POA.

**Returns:**poa POA associated with the servant.

### \_object\_id

public final byte[] **\_object\_id**()

Allows easy execution of common methods, equivalent to calling PortableServer::Current::get\_object\_id.

**Returns:**object\_id the Object ID associated with this servant.

### \_default\_POA

public [POA](http://docs.google.com/org/omg/PortableServer/POA.html) **\_default\_POA**()

Returns the root POA from the ORB instance associated with the servant. Subclasses may override this method to return a different POA.

**Returns:**default\_POA the POA associated with the Servant.

### \_is\_a

public boolean **\_is\_a**([String](http://docs.google.com/java/lang/String.html) repository\_id)

Checks to see if the specified repository\_id is present on the list returned by \_all\_interfaces() or is the repository\_id for the generic CORBA Object.

**Parameters:**repository\_id - the repository\_id to be checked in the repository list or against the id of generic CORBA objects. **Returns:**is\_a boolean indicating whether the specified repository\_id is in the repository list or is same as a generic CORBA object.

### \_non\_existent

public boolean **\_non\_existent**()

Checks for the existence of an Object. The Servant provides a default implementation of \_non\_existent() that can be overridden by derived servants.

**Returns:**non\_existent true if that object does not exist, false otherwise.

### \_get\_interface\_def

public [Object](http://docs.google.com/org/omg/CORBA/Object.html) **\_get\_interface\_def**()

Returns an InterfaceDef object as a CORBA::Object that defines the runtime type of the CORBA::Object implemented by the Servant. The invoker of \_get\_interface\_def must narrow the result to an InterfaceDef in order to use it.

This default implementation of \_get\_interface\_def() can be overridden by derived servants if the default behavior is not adequate. As defined in the CORBA 2.3.1 specification, section 11.3.1, the default behavior of \_get\_interface\_def() is to use the most derived interface of a static servant or the most derived interface retrieved from a dynamic servant to obtain the InterfaceDef. This behavior must be supported by the Delegate that implements the Servant.

**Returns:**get\_interface\_def an InterfaceDef object as a CORBA::Object that defines the runtime type of the CORBA::Object implemented by the Servant.

### \_all\_interfaces

public abstract [String](http://docs.google.com/java/lang/String.html)[] **\_all\_interfaces**([POA](http://docs.google.com/org/omg/PortableServer/POA.html) poa,  
 byte[] objectId)

Used by the ORB to obtain complete type information from the servant.

**Parameters:**poa - POA with which the servant is associated.objectId - is the id corresponding to the object associated with this servant. **Returns:**list of type information for the object.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Servant.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/org/omg/PortableServer/RequestProcessingPolicyValue.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/PortableServer/SERVANT_RETENTION_POLICY_ID.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/PortableServer/Servant.html)    [**NO FRAMES**](http://docs.google.com/Servant.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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