| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MBeanServerDelegate.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/management/MBeanServerConnection.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/MBeanServerDelegate.html)    [**NO FRAMES**](http://docs.google.com/MBeanServerDelegate.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#2s8eyo1) | [METHOD](#3rdcrjn) |

## **javax.management**

Class MBeanServerDelegate

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.management.MBeanServerDelegate**

**All Implemented Interfaces:** [MBeanServerDelegateMBean](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html), [NotificationBroadcaster](http://docs.google.com/javax/management/NotificationBroadcaster.html), [NotificationEmitter](http://docs.google.com/javax/management/NotificationEmitter.html)

public class **MBeanServerDelegate**extends [Object](http://docs.google.com/java/lang/Object.html)implements [MBeanServerDelegateMBean](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html), [NotificationEmitter](http://docs.google.com/javax/management/NotificationEmitter.html)

Represents the MBean server from the management point of view. The MBeanServerDelegate MBean emits the MBeanServerNotifications when an MBean is registered/unregistered in the MBean server.

**Since:** 1.5

| **Field Summary** | |
| --- | --- |
| static [ObjectName](http://docs.google.com/javax/management/ObjectName.html) | [**DELEGATE\_NAME**](http://docs.google.com/javax/management/MBeanServerDelegate.html#DELEGATE_NAME)            Defines the default ObjectName of the MBeanServerDelegate. |

| **Constructor Summary** | |
| --- | --- |
| [**MBeanServerDelegate**](http://docs.google.com/javax/management/MBeanServerDelegate.html#MBeanServerDelegate())()            Create a MBeanServerDelegate object. |

| **Method Summary** | |
| --- | --- |
| void | [**addNotificationListener**](http://docs.google.com/javax/management/MBeanServerDelegate.html#addNotificationListener(javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object))([NotificationListener](http://docs.google.com/javax/management/NotificationListener.html) listener, [NotificationFilter](http://docs.google.com/javax/management/NotificationFilter.html) filter, [Object](http://docs.google.com/java/lang/Object.html) handback)            Adds a listener to this MBean. |
| [String](http://docs.google.com/java/lang/String.html) | [**getImplementationName**](http://docs.google.com/javax/management/MBeanServerDelegate.html#getImplementationName())()            Returns the JMX implementation name (the name of this product). |
| [String](http://docs.google.com/java/lang/String.html) | [**getImplementationVendor**](http://docs.google.com/javax/management/MBeanServerDelegate.html#getImplementationVendor())()            Returns the JMX implementation vendor (the vendor of this product). |
| [String](http://docs.google.com/java/lang/String.html) | [**getImplementationVersion**](http://docs.google.com/javax/management/MBeanServerDelegate.html#getImplementationVersion())()            Returns the JMX implementation version (the version of this product). |
| [String](http://docs.google.com/java/lang/String.html) | [**getMBeanServerId**](http://docs.google.com/javax/management/MBeanServerDelegate.html#getMBeanServerId())()            Returns the MBean server agent identity. |
| [MBeanNotificationInfo](http://docs.google.com/javax/management/MBeanNotificationInfo.html)[] | [**getNotificationInfo**](http://docs.google.com/javax/management/MBeanServerDelegate.html#getNotificationInfo())()            Returns an array indicating, for each notification this MBean may send, the name of the Java class of the notification and the notification type. |
| [String](http://docs.google.com/java/lang/String.html) | [**getSpecificationName**](http://docs.google.com/javax/management/MBeanServerDelegate.html#getSpecificationName())()            Returns the full name of the JMX specification implemented by this product. |
| [String](http://docs.google.com/java/lang/String.html) | [**getSpecificationVendor**](http://docs.google.com/javax/management/MBeanServerDelegate.html#getSpecificationVendor())()            Returns the vendor of the JMX specification implemented by this product. |
| [String](http://docs.google.com/java/lang/String.html) | [**getSpecificationVersion**](http://docs.google.com/javax/management/MBeanServerDelegate.html#getSpecificationVersion())()            Returns the version of the JMX specification implemented by this product. |
| void | [**removeNotificationListener**](http://docs.google.com/javax/management/MBeanServerDelegate.html#removeNotificationListener(javax.management.NotificationListener))([NotificationListener](http://docs.google.com/javax/management/NotificationListener.html) listener)            Removes a listener from this MBean. |
| void | [**removeNotificationListener**](http://docs.google.com/javax/management/MBeanServerDelegate.html#removeNotificationListener(javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object))([NotificationListener](http://docs.google.com/javax/management/NotificationListener.html) listener, [NotificationFilter](http://docs.google.com/javax/management/NotificationFilter.html) filter, [Object](http://docs.google.com/java/lang/Object.html) handback)            Removes a listener from this MBean. |
| void | [**sendNotification**](http://docs.google.com/javax/management/MBeanServerDelegate.html#sendNotification(javax.management.Notification))([Notification](http://docs.google.com/javax/management/Notification.html) notification)            Enables the MBean server to send a notification. |

| **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)) |

| **Field Detail** |
| --- |

### DELEGATE\_NAME

public static final [ObjectName](http://docs.google.com/javax/management/ObjectName.html) **DELEGATE\_NAME**

Defines the default ObjectName of the MBeanServerDelegate.

**Since:** 1.6

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

### MBeanServerDelegate

public **MBeanServerDelegate**()

Create a MBeanServerDelegate object.

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

### getMBeanServerId

public [String](http://docs.google.com/java/lang/String.html) **getMBeanServerId**()

Returns the MBean server agent identity.

**Specified by:**[getMBeanServerId](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html#getMBeanServerId()) in interface [MBeanServerDelegateMBean](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html) **Returns:**the identity.

### getSpecificationName

public [String](http://docs.google.com/java/lang/String.html) **getSpecificationName**()

Returns the full name of the JMX specification implemented by this product.

**Specified by:**[getSpecificationName](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html#getSpecificationName()) in interface [MBeanServerDelegateMBean](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html) **Returns:**the specification name.

### getSpecificationVersion

public [String](http://docs.google.com/java/lang/String.html) **getSpecificationVersion**()

Returns the version of the JMX specification implemented by this product.

**Specified by:**[getSpecificationVersion](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html#getSpecificationVersion()) in interface [MBeanServerDelegateMBean](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html) **Returns:**the specification version.

### getSpecificationVendor

public [String](http://docs.google.com/java/lang/String.html) **getSpecificationVendor**()

Returns the vendor of the JMX specification implemented by this product.

**Specified by:**[getSpecificationVendor](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html#getSpecificationVendor()) in interface [MBeanServerDelegateMBean](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html) **Returns:**the specification vendor.

### getImplementationName

public [String](http://docs.google.com/java/lang/String.html) **getImplementationName**()

Returns the JMX implementation name (the name of this product).

**Specified by:**[getImplementationName](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html#getImplementationName()) in interface [MBeanServerDelegateMBean](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html) **Returns:**the implementation name.

### getImplementationVersion

public [String](http://docs.google.com/java/lang/String.html) **getImplementationVersion**()

Returns the JMX implementation version (the version of this product).

**Specified by:**[getImplementationVersion](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html#getImplementationVersion()) in interface [MBeanServerDelegateMBean](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html) **Returns:**the implementation version.

### getImplementationVendor

public [String](http://docs.google.com/java/lang/String.html) **getImplementationVendor**()

Returns the JMX implementation vendor (the vendor of this product).

**Specified by:**[getImplementationVendor](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html#getImplementationVendor()) in interface [MBeanServerDelegateMBean](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html) **Returns:**the implementation vendor.

### getNotificationInfo

public [MBeanNotificationInfo](http://docs.google.com/javax/management/MBeanNotificationInfo.html)[] **getNotificationInfo**()

**Description copied from interface:** [**NotificationBroadcaster**](http://docs.google.com/javax/management/NotificationBroadcaster.html#getNotificationInfo())

Returns an array indicating, for each notification this MBean may send, the name of the Java class of the notification and the notification type.

It is not illegal for the MBean to send notifications not described in this array. However, some clients of the MBean server may depend on the array being complete for their correct functioning.

**Specified by:**[getNotificationInfo](http://docs.google.com/javax/management/NotificationBroadcaster.html#getNotificationInfo()) in interface [NotificationBroadcaster](http://docs.google.com/javax/management/NotificationBroadcaster.html) **Returns:**the array of possible notifications.

### addNotificationListener

public void **addNotificationListener**([NotificationListener](http://docs.google.com/javax/management/NotificationListener.html) listener,  
 [NotificationFilter](http://docs.google.com/javax/management/NotificationFilter.html) filter,  
 [Object](http://docs.google.com/java/lang/Object.html) handback)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

**Description copied from interface:** [**NotificationBroadcaster**](http://docs.google.com/javax/management/NotificationBroadcaster.html#addNotificationListener(javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object)) Adds a listener to this MBean.

**Specified by:**[addNotificationListener](http://docs.google.com/javax/management/NotificationBroadcaster.html#addNotificationListener(javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object)) in interface [NotificationBroadcaster](http://docs.google.com/javax/management/NotificationBroadcaster.html) **Parameters:**listener - The listener object which will handle the notifications emitted by the broadcaster.filter - The filter object. If filter is null, no filtering will be performed before handling notifications.handback - An opaque object to be sent back to the listener when a notification is emitted. This object cannot be used by the Notification broadcaster object. It should be resent unchanged with the notification to the listener. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - Listener parameter is null.**See Also:**[NotificationBroadcaster.removeNotificationListener(javax.management.NotificationListener)](http://docs.google.com/javax/management/NotificationBroadcaster.html#removeNotificationListener(javax.management.NotificationListener))

### removeNotificationListener

public void **removeNotificationListener**([NotificationListener](http://docs.google.com/javax/management/NotificationListener.html) listener,  
 [NotificationFilter](http://docs.google.com/javax/management/NotificationFilter.html) filter,  
 [Object](http://docs.google.com/java/lang/Object.html) handback)  
 throws [ListenerNotFoundException](http://docs.google.com/javax/management/ListenerNotFoundException.html)

**Description copied from interface:** [**NotificationEmitter**](http://docs.google.com/javax/management/NotificationEmitter.html#removeNotificationListener(javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object))

Removes a listener from this MBean. The MBean must have a listener that exactly matches the given listener, filter, and handback parameters. If there is more than one such listener, only one is removed.

The filter and handback parameters may be null if and only if they are null in a listener to be removed.

**Specified by:**[removeNotificationListener](http://docs.google.com/javax/management/NotificationEmitter.html#removeNotificationListener(javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object)) in interface [NotificationEmitter](http://docs.google.com/javax/management/NotificationEmitter.html) **Parameters:**listener - A listener that was previously added to this MBean.filter - The filter that was specified when the listener was added.handback - The handback that was specified when the listener was added. **Throws:** [ListenerNotFoundException](http://docs.google.com/javax/management/ListenerNotFoundException.html) - The listener is not registered with the MBean, or it is not registered with the given filter and handback.

### removeNotificationListener

public void **removeNotificationListener**([NotificationListener](http://docs.google.com/javax/management/NotificationListener.html) listener)  
 throws [ListenerNotFoundException](http://docs.google.com/javax/management/ListenerNotFoundException.html)

**Description copied from interface:** [**NotificationBroadcaster**](http://docs.google.com/javax/management/NotificationBroadcaster.html#removeNotificationListener(javax.management.NotificationListener)) Removes a listener from this MBean. If the listener has been registered with different handback objects or notification filters, all entries corresponding to the listener will be removed.

**Specified by:**[removeNotificationListener](http://docs.google.com/javax/management/NotificationBroadcaster.html#removeNotificationListener(javax.management.NotificationListener)) in interface [NotificationBroadcaster](http://docs.google.com/javax/management/NotificationBroadcaster.html) **Parameters:**listener - A listener that was previously added to this MBean. **Throws:** [ListenerNotFoundException](http://docs.google.com/javax/management/ListenerNotFoundException.html) - The listener is not registered with the MBean.**See Also:**[NotificationBroadcaster.addNotificationListener(javax.management.NotificationListener, javax.management.NotificationFilter, java.lang.Object)](http://docs.google.com/javax/management/NotificationBroadcaster.html#addNotificationListener(javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object)), [NotificationEmitter.removeNotificationListener(javax.management.NotificationListener, javax.management.NotificationFilter, java.lang.Object)](http://docs.google.com/javax/management/NotificationEmitter.html#removeNotificationListener(javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object))

### sendNotification

public void **sendNotification**([Notification](http://docs.google.com/javax/management/Notification.html) notification)

Enables the MBean server to send a notification. If the passed notification has a sequence number lesser or equal to 0, then replace it with the delegate's own sequence number.

**Parameters:**notification - The notification to send.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MBeanServerDelegate.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/management/MBeanServerConnection.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/MBeanServerDelegateMBean.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/MBeanServerDelegate.html)    [**NO FRAMES**](http://docs.google.com/MBeanServerDelegate.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#2s8eyo1) | [METHOD](#3rdcrjn) |

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).