| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Notification.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/NotCompliantMBeanException.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/NotificationBroadcaster.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/Notification.html)    [**NO FRAMES**](http://docs.google.com/Notification.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#17dp8vu) | [METHOD](#1ksv4uv) |

## **javax.management**

Class Notification

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

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html) **Direct Known Subclasses:** [AttributeChangeNotification](http://docs.google.com/javax/management/AttributeChangeNotification.html), [JMXConnectionNotification](http://docs.google.com/javax/management/remote/JMXConnectionNotification.html), [MBeanServerNotification](http://docs.google.com/javax/management/MBeanServerNotification.html), [MonitorNotification](http://docs.google.com/javax/management/monitor/MonitorNotification.html), [RelationNotification](http://docs.google.com/javax/management/relation/RelationNotification.html), [TimerNotification](http://docs.google.com/javax/management/timer/TimerNotification.html)

public class **Notification**extends [EventObject](http://docs.google.com/java/util/EventObject.html)

The Notification class represents a notification emitted by an MBean. It contains a reference to the source MBean: if the notification has been forwarded through the MBean server, and the original source of the notification was a reference to the emitting MBean object, then the MBean server replaces it by the MBean's ObjectName. If the listener has registered directly with the MBean, this is either the object name or a direct reference to the MBean.

It is strongly recommended that notification senders use the object name rather than a reference to the MBean object as the source.

The **serialVersionUID** of this class is -7516092053498031989L.

**Since:** 1.5 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#javax.management.Notification)

| **Field Summary** | |
| --- | --- |
| protected  [Object](http://docs.google.com/java/lang/Object.html) | [**source**](http://docs.google.com/javax/management/Notification.html#source)            This field hides the [EventObject.source](http://docs.google.com/java/util/EventObject.html#source) field in the parent class to make it non-transient and therefore part of the serialized form. |

| **Constructor Summary** | |
| --- | --- |
| [**Notification**](http://docs.google.com/javax/management/Notification.html#Notification(java.lang.String,%20java.lang.Object,%20long))([String](http://docs.google.com/java/lang/String.html) type, [Object](http://docs.google.com/java/lang/Object.html) source, long sequenceNumber)            Creates a Notification object. |
| [**Notification**](http://docs.google.com/javax/management/Notification.html#Notification(java.lang.String,%20java.lang.Object,%20long,%20long))([String](http://docs.google.com/java/lang/String.html) type, [Object](http://docs.google.com/java/lang/Object.html) source, long sequenceNumber, long timeStamp)            Creates a Notification object. |
| [**Notification**](http://docs.google.com/javax/management/Notification.html#Notification(java.lang.String,%20java.lang.Object,%20long,%20long,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) type, [Object](http://docs.google.com/java/lang/Object.html) source, long sequenceNumber, long timeStamp, [String](http://docs.google.com/java/lang/String.html) message)            Creates a Notification object. |
| [**Notification**](http://docs.google.com/javax/management/Notification.html#Notification(java.lang.String,%20java.lang.Object,%20long,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) type, [Object](http://docs.google.com/java/lang/Object.html) source, long sequenceNumber, [String](http://docs.google.com/java/lang/String.html) message)            Creates a Notification object. |

| **Method Summary** | |
| --- | --- |
| [String](http://docs.google.com/java/lang/String.html) | [**getMessage**](http://docs.google.com/javax/management/Notification.html#getMessage())()            Get the notification message. |
| long | [**getSequenceNumber**](http://docs.google.com/javax/management/Notification.html#getSequenceNumber())()            Get the notification sequence number. |
| long | [**getTimeStamp**](http://docs.google.com/javax/management/Notification.html#getTimeStamp())()            Get the notification timestamp. |
| [String](http://docs.google.com/java/lang/String.html) | [**getType**](http://docs.google.com/javax/management/Notification.html#getType())()            Get the notification type. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getUserData**](http://docs.google.com/javax/management/Notification.html#getUserData())()            Get the user data. |
| void | [**setSequenceNumber**](http://docs.google.com/javax/management/Notification.html#setSequenceNumber(long))(long sequenceNumber)            Set the notification sequence number. |
| void | [**setSource**](http://docs.google.com/javax/management/Notification.html#setSource(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) source)            Sets the source. |
| void | [**setTimeStamp**](http://docs.google.com/javax/management/Notification.html#setTimeStamp(long))(long timeStamp)            Set the notification timestamp. |
| void | [**setUserData**](http://docs.google.com/javax/management/Notification.html#setUserData(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) userData)            Set the user data. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/management/Notification.html#toString())()            Returns a String representation of this notification. |

| **Methods inherited from class java.util.**[**EventObject**](http://docs.google.com/java/util/EventObject.html) |
| --- |
| [getSource](http://docs.google.com/java/util/EventObject.html#getSource()) |

| **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()), [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** |
| --- |

### source

protected [Object](http://docs.google.com/java/lang/Object.html) **source**

This field hides the [EventObject.source](http://docs.google.com/java/util/EventObject.html#source) field in the parent class to make it non-transient and therefore part of the serialized form.

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

### Notification

public **Notification**([String](http://docs.google.com/java/lang/String.html) type,  
 [Object](http://docs.google.com/java/lang/Object.html) source,  
 long sequenceNumber)

Creates a Notification object. The notification timeStamp is set to the current date.

**Parameters:**type - The notification type.source - The notification source.sequenceNumber - The notification sequence number within the source object.

### Notification

public **Notification**([String](http://docs.google.com/java/lang/String.html) type,  
 [Object](http://docs.google.com/java/lang/Object.html) source,  
 long sequenceNumber,  
 [String](http://docs.google.com/java/lang/String.html) message)

Creates a Notification object. The notification timeStamp is set to the current date.

**Parameters:**type - The notification type.source - The notification source.sequenceNumber - The notification sequence number within the source object.message - The detailed message.

### Notification

public **Notification**([String](http://docs.google.com/java/lang/String.html) type,  
 [Object](http://docs.google.com/java/lang/Object.html) source,  
 long sequenceNumber,  
 long timeStamp)

Creates a Notification object.

**Parameters:**type - The notification type.source - The notification source.sequenceNumber - The notification sequence number within the source object.timeStamp - The notification emission date.

### Notification

public **Notification**([String](http://docs.google.com/java/lang/String.html) type,  
 [Object](http://docs.google.com/java/lang/Object.html) source,  
 long sequenceNumber,  
 long timeStamp,  
 [String](http://docs.google.com/java/lang/String.html) message)

Creates a Notification object.

**Parameters:**type - The notification type.source - The notification source.sequenceNumber - The notification sequence number within the source object.timeStamp - The notification emission date.message - The detailed message.

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

### setSource

public void **setSource**([Object](http://docs.google.com/java/lang/Object.html) source)

Sets the source.

**Parameters:**source - the new source for this object.**See Also:**[EventObject.getSource()](http://docs.google.com/java/util/EventObject.html#getSource())

### getSequenceNumber

public long **getSequenceNumber**()

Get the notification sequence number.

**Returns:**The notification sequence number within the source object. It's a serial number identifying a particular instance of notification in the context of the notification source. The notification model does not assume that notifications will be received in the same order that they are sent. The sequence number helps listeners to sort received notifications.**See Also:**[setSequenceNumber(long)](http://docs.google.com/javax/management/Notification.html#setSequenceNumber(long))

### setSequenceNumber

public void **setSequenceNumber**(long sequenceNumber)

Set the notification sequence number.

**Parameters:**sequenceNumber - The notification sequence number within the source object. It is a serial number identifying a particular instance of notification in the context of the notification source.**See Also:**[getSequenceNumber()](http://docs.google.com/javax/management/Notification.html#getSequenceNumber())

### getType

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

Get the notification type.

**Returns:**The notification type. It's a string expressed in a dot notation similar to Java properties. An example of a notification type is network.alarm.router .

### getTimeStamp

public long **getTimeStamp**()

Get the notification timestamp.

**Returns:**The notification timestamp.**See Also:**[setTimeStamp(long)](http://docs.google.com/javax/management/Notification.html#setTimeStamp(long))

### setTimeStamp

public void **setTimeStamp**(long timeStamp)

Set the notification timestamp.

**Parameters:**timeStamp - The notification timestamp. It indicates when the notification was generated.**See Also:**[getTimeStamp()](http://docs.google.com/javax/management/Notification.html#getTimeStamp())

### getMessage

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

Get the notification message.

**Returns:**The message string of this notification object. It contains in a string, which could be the explanation of the notification for displaying to a user

### getUserData

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

Get the user data.

**Returns:**The user data object. It is used for whatever data the notification source wishes to communicate to its consumers.**See Also:**[setUserData(java.lang.Object)](http://docs.google.com/javax/management/Notification.html#setUserData(java.lang.Object))

### setUserData

public void **setUserData**([Object](http://docs.google.com/java/lang/Object.html) userData)

Set the user data.

**Parameters:**userData - The user data object. It is used for whatever data the notification source wishes to communicate to its consumers.**See Also:**[getUserData()](http://docs.google.com/javax/management/Notification.html#getUserData())

### toString

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

Returns a String representation of this notification.

**Overrides:**[toString](http://docs.google.com/java/util/EventObject.html#toString()) in class [EventObject](http://docs.google.com/java/util/EventObject.html) **Returns:**A String representation of this notification.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Notification.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/NotCompliantMBeanException.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/NotificationBroadcaster.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/Notification.html)    [**NO FRAMES**](http://docs.google.com/Notification.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#17dp8vu) | [METHOD](#1ksv4uv) |

[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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