| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AttributeChangeNotification.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/Attribute.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/AttributeChangeNotificationFilter.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/AttributeChangeNotification.html)    [**NO FRAMES**](http://docs.google.com/AttributeChangeNotification.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#17dp8vu) | [CONSTR](#26in1rg) | [METHOD](#35nkun2) |

## **javax.management**

Class AttributeChangeNotification

[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](http://docs.google.com/javax/management/Notification.html)  
 **javax.management.AttributeChangeNotification**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html)

public class **AttributeChangeNotification**extends [Notification](http://docs.google.com/javax/management/Notification.html)

Provides definitions of the attribute change notifications sent by MBeans.

It's up to the MBean owning the attribute of interest to create and send attribute change notifications when the attribute change occurs. So the NotificationBroadcaster interface has to be implemented by any MBean for which an attribute change is of interest.

Example: If an MBean called myMbean needs to notify registered listeners when its attribute:

String myStringis modified, myMbean creates and emits the following notification:new AttributeChangeNotification(myMbean, sequenceNumber, timeStamp, msg, "myString", "String", oldValue, newValue);

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

| **Field Summary** | |
| --- | --- |
| static [String](http://docs.google.com/java/lang/String.html) | [**ATTRIBUTE\_CHANGE**](http://docs.google.com/javax/management/AttributeChangeNotification.html#ATTRIBUTE_CHANGE)            Notification type which indicates that the observed MBean attribute value has changed. |

| **Fields inherited from class javax.management.**[**Notification**](http://docs.google.com/javax/management/Notification.html) |
| --- |
| [source](http://docs.google.com/javax/management/Notification.html#source) |

| **Constructor Summary** | |
| --- | --- |
| [**AttributeChangeNotification**](http://docs.google.com/javax/management/AttributeChangeNotification.html#AttributeChangeNotification(java.lang.Object,%20long,%20long,%20java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.Object,%20java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) source, long sequenceNumber, long timeStamp, [String](http://docs.google.com/java/lang/String.html) msg, [String](http://docs.google.com/java/lang/String.html) attributeName, [String](http://docs.google.com/java/lang/String.html) attributeType, [Object](http://docs.google.com/java/lang/Object.html) oldValue, [Object](http://docs.google.com/java/lang/Object.html) newValue)            Constructs an attribute change notification object. |

| **Method Summary** | |
| --- | --- |
| [String](http://docs.google.com/java/lang/String.html) | [**getAttributeName**](http://docs.google.com/javax/management/AttributeChangeNotification.html#getAttributeName())()            Gets the name of the attribute which has changed. |
| [String](http://docs.google.com/java/lang/String.html) | [**getAttributeType**](http://docs.google.com/javax/management/AttributeChangeNotification.html#getAttributeType())()            Gets the type of the attribute which has changed. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getNewValue**](http://docs.google.com/javax/management/AttributeChangeNotification.html#getNewValue())()            Gets the new value of the attribute which has changed. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getOldValue**](http://docs.google.com/javax/management/AttributeChangeNotification.html#getOldValue())()            Gets the old value of the attribute which has changed. |

| **Methods inherited from class javax.management.**[**Notification**](http://docs.google.com/javax/management/Notification.html) |
| --- |
| [getMessage](http://docs.google.com/javax/management/Notification.html#getMessage()), [getSequenceNumber](http://docs.google.com/javax/management/Notification.html#getSequenceNumber()), [getTimeStamp](http://docs.google.com/javax/management/Notification.html#getTimeStamp()), [getType](http://docs.google.com/javax/management/Notification.html#getType()), [getUserData](http://docs.google.com/javax/management/Notification.html#getUserData()), [setSequenceNumber](http://docs.google.com/javax/management/Notification.html#setSequenceNumber(long)), [setSource](http://docs.google.com/javax/management/Notification.html#setSource(java.lang.Object)), [setTimeStamp](http://docs.google.com/javax/management/Notification.html#setTimeStamp(long)), [setUserData](http://docs.google.com/javax/management/Notification.html#setUserData(java.lang.Object)), [toString](http://docs.google.com/javax/management/Notification.html#toString()) |

| **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** |
| --- |

### ATTRIBUTE\_CHANGE

public static final [String](http://docs.google.com/java/lang/String.html) **ATTRIBUTE\_CHANGE**

Notification type which indicates that the observed MBean attribute value has changed.

The value of this type string is jmx.attribute.change.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.management.AttributeChangeNotification.ATTRIBUTE_CHANGE)

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

### AttributeChangeNotification

public **AttributeChangeNotification**([Object](http://docs.google.com/java/lang/Object.html) source,  
 long sequenceNumber,  
 long timeStamp,  
 [String](http://docs.google.com/java/lang/String.html) msg,  
 [String](http://docs.google.com/java/lang/String.html) attributeName,  
 [String](http://docs.google.com/java/lang/String.html) attributeType,  
 [Object](http://docs.google.com/java/lang/Object.html) oldValue,  
 [Object](http://docs.google.com/java/lang/Object.html) newValue)

Constructs an attribute change notification object. In addition to the information common to all notification, the caller must supply the name and type of the attribute, as well as its old and new values.

**Parameters:**source - The notification producer, that is, the MBean the attribute belongs to.sequenceNumber - The notification sequence number within the source object.timeStamp - The date at which the notification is being sent.msg - A String containing the message of the notification.attributeName - A String giving the name of the attribute.attributeType - A String containing the type of the attribute.oldValue - An object representing value of the attribute before the change.newValue - An object representing value of the attribute after the change.

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

### getAttributeName

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

Gets the name of the attribute which has changed.

**Returns:**A String containing the name of the attribute.

### getAttributeType

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

Gets the type of the attribute which has changed.

**Returns:**A String containing the type of the attribute.

### getOldValue

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

Gets the old value of the attribute which has changed.

**Returns:**An Object containing the old value of the attribute.

### getNewValue

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

Gets the new value of the attribute which has changed.

**Returns:**An Object containing the new value of the attribute.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AttributeChangeNotification.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*** |
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[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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