| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MonitorNotification.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/monitor/MonitorMBean.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/monitor/MonitorSettingException.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/monitor/MonitorNotification.html)    [**NO FRAMES**](http://docs.google.com/MonitorNotification.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#tyjcwt) | DETAIL: [FIELD](#2s8eyo1) | CONSTR | [METHOD](#1y810tw) |

## **javax.management.monitor**

Class MonitorNotification

[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.monitor.MonitorNotification**

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

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

Provides definitions of the notifications sent by monitor MBeans.

The notification source and a set of parameters concerning the monitor MBean's state need to be specified when creating a new object of this class. The list of notifications fired by the monitor MBeans is the following:

* Common to all kind of monitors:
  + The observed object is not registered in the MBean server.
  + The observed attribute is not contained in the observed object.
  + The type of the observed attribute is not correct.
  + Any exception (except the cases described above) occurs when trying to get the value of the observed attribute.
* Common to the counter and the gauge monitors:
  + The threshold high or threshold low are not of the same type as the gauge (gauge monitors).
  + The threshold or the offset or the modulus are not of the same type as the counter (counter monitors).
* Counter monitors only:
  + The observed attribute has reached the threshold value.
* Gauge monitors only:
  + The observed attribute has exceeded the threshold high value.
  + The observed attribute has exceeded the threshold low value.
* String monitors only:
  + The observed attribute has matched the "string to compare" value.
  + The observed attribute has differed from the "string to compare" value.

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

| **Field Summary** | |
| --- | --- |
| static [String](http://docs.google.com/java/lang/String.html) | [**OBSERVED\_ATTRIBUTE\_ERROR**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#OBSERVED_ATTRIBUTE_ERROR)            Notification type denoting that the observed attribute is not contained in the observed object. |
| static [String](http://docs.google.com/java/lang/String.html) | [**OBSERVED\_ATTRIBUTE\_TYPE\_ERROR**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#OBSERVED_ATTRIBUTE_TYPE_ERROR)            Notification type denoting that the type of the observed attribute is not correct. |
| static [String](http://docs.google.com/java/lang/String.html) | [**OBSERVED\_OBJECT\_ERROR**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#OBSERVED_OBJECT_ERROR)            Notification type denoting that the observed object is not registered in the MBean server. |
| static [String](http://docs.google.com/java/lang/String.html) | [**RUNTIME\_ERROR**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#RUNTIME_ERROR)            Notification type denoting that a non-predefined error type has occurred when trying to get the value of the observed attribute. |
| static [String](http://docs.google.com/java/lang/String.html) | [**STRING\_TO\_COMPARE\_VALUE\_DIFFERED**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#STRING_TO_COMPARE_VALUE_DIFFERED)            Notification type denoting that the observed attribute has differed from the "string to compare" value. |
| static [String](http://docs.google.com/java/lang/String.html) | [**STRING\_TO\_COMPARE\_VALUE\_MATCHED**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#STRING_TO_COMPARE_VALUE_MATCHED)            Notification type denoting that the observed attribute has matched the "string to compare" value. |
| static [String](http://docs.google.com/java/lang/String.html) | [**THRESHOLD\_ERROR**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#THRESHOLD_ERROR)            Notification type denoting that the type of the thresholds, offset or modulus is not correct. |
| static [String](http://docs.google.com/java/lang/String.html) | [**THRESHOLD\_HIGH\_VALUE\_EXCEEDED**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#THRESHOLD_HIGH_VALUE_EXCEEDED)            Notification type denoting that the observed attribute has exceeded the threshold high value. |
| static [String](http://docs.google.com/java/lang/String.html) | [**THRESHOLD\_LOW\_VALUE\_EXCEEDED**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#THRESHOLD_LOW_VALUE_EXCEEDED)            Notification type denoting that the observed attribute has exceeded the threshold low value. |
| static [String](http://docs.google.com/java/lang/String.html) | [**THRESHOLD\_VALUE\_EXCEEDED**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#THRESHOLD_VALUE_EXCEEDED)            Notification type denoting that the observed attribute has reached the threshold value. |

| **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) |

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getDerivedGauge**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#getDerivedGauge())()            Gets the derived gauge of this monitor notification. |
| [String](http://docs.google.com/java/lang/String.html) | [**getObservedAttribute**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#getObservedAttribute())()            Gets the observed attribute of this monitor notification. |
| [ObjectName](http://docs.google.com/javax/management/ObjectName.html) | [**getObservedObject**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#getObservedObject())()            Gets the observed object of this monitor notification. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getTrigger**](http://docs.google.com/javax/management/monitor/MonitorNotification.html#getTrigger())()            Gets the threshold/string (depending on the monitor type) that triggered off this monitor notification. |

| **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** |
| --- |

### OBSERVED\_OBJECT\_ERROR

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

Notification type denoting that the observed object is not registered in the MBean server. This notification is fired by all kinds of monitors.

The value of this notification type is jmx.monitor.error.mbean.

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

### OBSERVED\_ATTRIBUTE\_ERROR

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

Notification type denoting that the observed attribute is not contained in the observed object. This notification is fired by all kinds of monitors.

The value of this notification type is jmx.monitor.error.attribute.

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

### OBSERVED\_ATTRIBUTE\_TYPE\_ERROR

public static final [String](http://docs.google.com/java/lang/String.html) **OBSERVED\_ATTRIBUTE\_TYPE\_ERROR**

Notification type denoting that the type of the observed attribute is not correct. This notification is fired by all kinds of monitors.

The value of this notification type is jmx.monitor.error.type.

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

### THRESHOLD\_ERROR

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

Notification type denoting that the type of the thresholds, offset or modulus is not correct. This notification is fired by counter and gauge monitors.

The value of this notification type is jmx.monitor.error.threshold.

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

### RUNTIME\_ERROR

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

Notification type denoting that a non-predefined error type has occurred when trying to get the value of the observed attribute. This notification is fired by all kinds of monitors.

The value of this notification type is jmx.monitor.error.runtime.

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

### THRESHOLD\_VALUE\_EXCEEDED

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

Notification type denoting that the observed attribute has reached the threshold value. This notification is only fired by counter monitors.

The value of this notification type is jmx.monitor.counter.threshold.

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

### THRESHOLD\_HIGH\_VALUE\_EXCEEDED

public static final [String](http://docs.google.com/java/lang/String.html) **THRESHOLD\_HIGH\_VALUE\_EXCEEDED**

Notification type denoting that the observed attribute has exceeded the threshold high value. This notification is only fired by gauge monitors.

The value of this notification type is jmx.monitor.gauge.high.

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

### THRESHOLD\_LOW\_VALUE\_EXCEEDED

public static final [String](http://docs.google.com/java/lang/String.html) **THRESHOLD\_LOW\_VALUE\_EXCEEDED**

Notification type denoting that the observed attribute has exceeded the threshold low value. This notification is only fired by gauge monitors.

The value of this notification type is jmx.monitor.gauge.low.

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

### STRING\_TO\_COMPARE\_VALUE\_MATCHED

public static final [String](http://docs.google.com/java/lang/String.html) **STRING\_TO\_COMPARE\_VALUE\_MATCHED**

Notification type denoting that the observed attribute has matched the "string to compare" value. This notification is only fired by string monitors.

The value of this notification type is jmx.monitor.string.matches.

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

### STRING\_TO\_COMPARE\_VALUE\_DIFFERED

public static final [String](http://docs.google.com/java/lang/String.html) **STRING\_TO\_COMPARE\_VALUE\_DIFFERED**

Notification type denoting that the observed attribute has differed from the "string to compare" value. This notification is only fired by string monitors.

The value of this notification type is jmx.monitor.string.differs.

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

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

### getObservedObject

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

Gets the observed object of this monitor notification.

**Returns:**The observed object.

### getObservedAttribute

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

Gets the observed attribute of this monitor notification.

**Returns:**The observed attribute.

### getDerivedGauge

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

Gets the derived gauge of this monitor notification.

**Returns:**The derived gauge.

### getTrigger

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

Gets the threshold/string (depending on the monitor type) that triggered off this monitor notification.

**Returns:**The trigger.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MonitorNotification.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/monitor/MonitorMBean.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/monitor/MonitorSettingException.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/monitor/MonitorNotification.html)    [**NO FRAMES**](http://docs.google.com/MonitorNotification.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#tyjcwt) | DETAIL: [FIELD](#2s8eyo1) | CONSTR | [METHOD](#1y810tw) |

[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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