| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RelationNotification.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/relation/RelationNotFoundException.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/relation/RelationService.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/relation/RelationNotification.html)    [**NO FRAMES**](http://docs.google.com/RelationNotification.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#17dp8vu) | [CONSTR](#2jxsxqh) | [METHOD](#1y810tw) |

## **javax.management.relation**

Class RelationNotification

[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.relation.RelationNotification**

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

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

A notification of a change in the Relation Service. A RelationNotification notification is sent when a relation is created via the Relation Service, or an MBean is added as a relation in the Relation Service, or a role is updated in a relation, or a relation is removed from the Relation Service.

The **serialVersionUID** of this class is -6871117877523310399L.

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

| **Field Summary** | |
| --- | --- |
| static [String](http://docs.google.com/java/lang/String.html) | [**RELATION\_BASIC\_CREATION**](http://docs.google.com/javax/management/relation/RelationNotification.html#RELATION_BASIC_CREATION)            Type for the creation of an internal relation. |
| static [String](http://docs.google.com/java/lang/String.html) | [**RELATION\_BASIC\_REMOVAL**](http://docs.google.com/javax/management/relation/RelationNotification.html#RELATION_BASIC_REMOVAL)            Type for the removal from the Relation Service of an internal relation. |
| static [String](http://docs.google.com/java/lang/String.html) | [**RELATION\_BASIC\_UPDATE**](http://docs.google.com/javax/management/relation/RelationNotification.html#RELATION_BASIC_UPDATE)            Type for an update of an internal relation. |
| static [String](http://docs.google.com/java/lang/String.html) | [**RELATION\_MBEAN\_CREATION**](http://docs.google.com/javax/management/relation/RelationNotification.html#RELATION_MBEAN_CREATION)            Type for the relation MBean added into the Relation Service. |
| static [String](http://docs.google.com/java/lang/String.html) | [**RELATION\_MBEAN\_REMOVAL**](http://docs.google.com/javax/management/relation/RelationNotification.html#RELATION_MBEAN_REMOVAL)            Type for the removal from the Relation Service of a relation MBean. |
| static [String](http://docs.google.com/java/lang/String.html) | [**RELATION\_MBEAN\_UPDATE**](http://docs.google.com/javax/management/relation/RelationNotification.html#RELATION_MBEAN_UPDATE)            Type for the update of a relation MBean. |

| **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** | |
| --- | --- |
| [**RelationNotification**](http://docs.google.com/javax/management/relation/RelationNotification.html#RelationNotification(java.lang.String,%20java.lang.Object,%20long,%20long,%20java.lang.String,%20java.lang.String,%20java.lang.String,%20javax.management.ObjectName,%20java.util.List))([String](http://docs.google.com/java/lang/String.html) notifType, [Object](http://docs.google.com/java/lang/Object.html) sourceObj, long sequence, long timeStamp, [String](http://docs.google.com/java/lang/String.html) message, [String](http://docs.google.com/java/lang/String.html) id, [String](http://docs.google.com/java/lang/String.html) typeName, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) objectName, [List](http://docs.google.com/java/util/List.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> unregMBeanList)            Creates a notification for either a relation creation (RelationSupport object created internally in the Relation Service, or an MBean added as a relation) or for a relation removal from the Relation Service. |
| [**RelationNotification**](http://docs.google.com/javax/management/relation/RelationNotification.html#RelationNotification(java.lang.String,%20java.lang.Object,%20long,%20long,%20java.lang.String,%20java.lang.String,%20java.lang.String,%20javax.management.ObjectName,%20java.lang.String,%20java.util.List,%20java.util.List))([String](http://docs.google.com/java/lang/String.html) notifType, [Object](http://docs.google.com/java/lang/Object.html) sourceObj, long sequence, long timeStamp, [String](http://docs.google.com/java/lang/String.html) message, [String](http://docs.google.com/java/lang/String.html) id, [String](http://docs.google.com/java/lang/String.html) typeName, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) objectName, [String](http://docs.google.com/java/lang/String.html) name, [List](http://docs.google.com/java/util/List.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> newValue, [List](http://docs.google.com/java/util/List.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> oldValue)            Creates a notification for a role update in a relation. |

| **Method Summary** | |
| --- | --- |
| [List](http://docs.google.com/java/util/List.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> | [**getMBeansToUnregister**](http://docs.google.com/javax/management/relation/RelationNotification.html#getMBeansToUnregister())()            Returns the list of ObjectNames of MBeans expected to be unregistered due to a relation removal (only for relation removal). |
| [List](http://docs.google.com/java/util/List.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> | [**getNewRoleValue**](http://docs.google.com/javax/management/relation/RelationNotification.html#getNewRoleValue())()            Returns new value of updated role (only for role update). |
| [ObjectName](http://docs.google.com/javax/management/ObjectName.html) | [**getObjectName**](http://docs.google.com/javax/management/relation/RelationNotification.html#getObjectName())()            Returns the ObjectName of the created/removed/updated relation. |
| [List](http://docs.google.com/java/util/List.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> | [**getOldRoleValue**](http://docs.google.com/javax/management/relation/RelationNotification.html#getOldRoleValue())()            Returns old value of updated role (only for role update). |
| [String](http://docs.google.com/java/lang/String.html) | [**getRelationId**](http://docs.google.com/javax/management/relation/RelationNotification.html#getRelationId())()            Returns the relation identifier of created/removed/updated relation. |
| [String](http://docs.google.com/java/lang/String.html) | [**getRelationTypeName**](http://docs.google.com/javax/management/relation/RelationNotification.html#getRelationTypeName())()            Returns the relation type name of created/removed/updated relation. |
| [String](http://docs.google.com/java/lang/String.html) | [**getRoleName**](http://docs.google.com/javax/management/relation/RelationNotification.html#getRoleName())()            Returns name of updated role of updated relation (only for role update). |

| **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** |
| --- |

### RELATION\_BASIC\_CREATION

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

Type for the creation of an internal relation.

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

### RELATION\_MBEAN\_CREATION

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

Type for the relation MBean added into the Relation Service.

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

### RELATION\_BASIC\_UPDATE

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

Type for an update of an internal relation.

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

### RELATION\_MBEAN\_UPDATE

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

Type for the update of a relation MBean.

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

### RELATION\_BASIC\_REMOVAL

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

Type for the removal from the Relation Service of an internal relation.

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

### RELATION\_MBEAN\_REMOVAL

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

Type for the removal from the Relation Service of a relation MBean.

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

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

### RelationNotification

public **RelationNotification**([String](http://docs.google.com/java/lang/String.html) notifType,  
 [Object](http://docs.google.com/java/lang/Object.html) sourceObj,  
 long sequence,  
 long timeStamp,  
 [String](http://docs.google.com/java/lang/String.html) message,  
 [String](http://docs.google.com/java/lang/String.html) id,  
 [String](http://docs.google.com/java/lang/String.html) typeName,  
 [ObjectName](http://docs.google.com/javax/management/ObjectName.html) objectName,  
 [List](http://docs.google.com/java/util/List.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> unregMBeanList)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Creates a notification for either a relation creation (RelationSupport object created internally in the Relation Service, or an MBean added as a relation) or for a relation removal from the Relation Service.

**Parameters:**notifType - type of the notification; either:

- RELATION\_BASIC\_CREATION

- RELATION\_MBEAN\_CREATION

- RELATION\_BASIC\_REMOVAL

- RELATION\_MBEAN\_REMOVAL

sourceObj - source object, sending the notification. This is either an ObjectName or a RelationService object. In the latter case it must be the MBean emitting the notification; the MBean Server will rewrite the source to be the ObjectName under which that MBean is registered.sequence - sequence number to identify the notificationtimeStamp - time stampmessage - human-readable message describing the notificationid - relation id identifying the relation in the Relation ServicetypeName - name of the relation typeobjectName - ObjectName of the relation object if it is an MBean (null for relations internally handled by the Relation Service)unregMBeanList - list of ObjectNames of referenced MBeans expected to be unregistered due to relation removal (only for removal, due to CIM qualifiers, can be null) **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if:

- no value for the notification type

- the notification type is not RELATION\_BASIC\_CREATION, RELATION\_MBEAN\_CREATION, RELATION\_BASIC\_REMOVAL or RELATION\_MBEAN\_REMOVAL

- no source object

- the source object is not a Relation Service

- no relation id

- no relation type name

### RelationNotification

public **RelationNotification**([String](http://docs.google.com/java/lang/String.html) notifType,  
 [Object](http://docs.google.com/java/lang/Object.html) sourceObj,  
 long sequence,  
 long timeStamp,  
 [String](http://docs.google.com/java/lang/String.html) message,  
 [String](http://docs.google.com/java/lang/String.html) id,  
 [String](http://docs.google.com/java/lang/String.html) typeName,  
 [ObjectName](http://docs.google.com/javax/management/ObjectName.html) objectName,  
 [String](http://docs.google.com/java/lang/String.html) name,  
 [List](http://docs.google.com/java/util/List.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> newValue,  
 [List](http://docs.google.com/java/util/List.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> oldValue)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Creates a notification for a role update in a relation.

**Parameters:**notifType - type of the notification; either:

- RELATION\_BASIC\_UPDATE

- RELATION\_MBEAN\_UPDATE

sourceObj - source object, sending the notification. This is either an ObjectName or a RelationService object. In the latter case it must be the MBean emitting the notification; the MBean Server will rewrite the source to be the ObjectName under which that MBean is registered.sequence - sequence number to identify the notificationtimeStamp - time stampmessage - human-readable message describing the notificationid - relation id identifying the relation in the Relation ServicetypeName - name of the relation typeobjectName - ObjectName of the relation object if it is an MBean (null for relations internally handled by the Relation Service)name - name of the updated rolenewValue - new role value (List of ObjectName objects)oldValue - old role value (List of ObjectName objects) **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if null parameter

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

### getRelationId

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

Returns the relation identifier of created/removed/updated relation.

**Returns:**the relation id.

### getRelationTypeName

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

Returns the relation type name of created/removed/updated relation.

**Returns:**the relation type name.

### getObjectName

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

Returns the ObjectName of the created/removed/updated relation.

**Returns:**the ObjectName if the relation is an MBean, otherwise null.

### getMBeansToUnregister

public [List](http://docs.google.com/java/util/List.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> **getMBeansToUnregister**()

Returns the list of ObjectNames of MBeans expected to be unregistered due to a relation removal (only for relation removal).

**Returns:**a [List](http://docs.google.com/java/util/List.html) of [ObjectName](http://docs.google.com/javax/management/ObjectName.html).

### getRoleName

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

Returns name of updated role of updated relation (only for role update).

**Returns:**the name of the updated role.

### getOldRoleValue

public [List](http://docs.google.com/java/util/List.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> **getOldRoleValue**()

Returns old value of updated role (only for role update).

**Returns:**the old value of the updated role.

### getNewRoleValue

public [List](http://docs.google.com/java/util/List.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> **getNewRoleValue**()

Returns new value of updated role (only for role update).

**Returns:**the new value of the updated role.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RelationNotification.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/relation/RelationNotFoundException.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/relation/RelationService.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/relation/RelationNotification.html)    [**NO FRAMES**](http://docs.google.com/RelationNotification.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#17dp8vu) | [CONSTR](#2jxsxqh) | [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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