| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RoleInfo.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/Role.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/relation/RoleInfoNotFoundException.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/relation/RoleInfo.html)    [**NO FRAMES**](http://docs.google.com/RoleInfo.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#2s8eyo1) | [METHOD](#35nkun2) |

## **javax.management.relation**

Class RoleInfo

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

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

public class **RoleInfo**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Serializable](http://docs.google.com/java/io/Serializable.html)

A RoleInfo object summarises a role in a relation type.

The **serialVersionUID** of this class is 2504952983494636987L.

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

| **Field Summary** | |
| --- | --- |
| static int | [**ROLE\_CARDINALITY\_INFINITY**](http://docs.google.com/javax/management/relation/RoleInfo.html#ROLE_CARDINALITY_INFINITY)            To specify an unlimited cardinality. |

| **Constructor Summary** | |
| --- | --- |
| [**RoleInfo**](http://docs.google.com/javax/management/relation/RoleInfo.html#RoleInfo(javax.management.relation.RoleInfo))([RoleInfo](http://docs.google.com/javax/management/relation/RoleInfo.html) roleInfo)            Copy constructor. |
| [**RoleInfo**](http://docs.google.com/javax/management/relation/RoleInfo.html#RoleInfo(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) roleName, [String](http://docs.google.com/java/lang/String.html) mbeanClassName)            Constructor. |
| [**RoleInfo**](http://docs.google.com/javax/management/relation/RoleInfo.html#RoleInfo(java.lang.String,%20java.lang.String,%20boolean,%20boolean))([String](http://docs.google.com/java/lang/String.html) roleName, [String](http://docs.google.com/java/lang/String.html) mbeanClassName, boolean read, boolean write)            Constructor. |
| [**RoleInfo**](http://docs.google.com/javax/management/relation/RoleInfo.html#RoleInfo(java.lang.String,%20java.lang.String,%20boolean,%20boolean,%20int,%20int,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) roleName, [String](http://docs.google.com/java/lang/String.html) mbeanClassName, boolean read, boolean write, int min, int max, [String](http://docs.google.com/java/lang/String.html) descr)            Constructor. |

| **Method Summary** | |
| --- | --- |
| boolean | [**checkMaxDegree**](http://docs.google.com/javax/management/relation/RoleInfo.html#checkMaxDegree(int))(int value)            Returns true if the value parameter is lower than or equal to the expected maximum degree, false otherwise. |
| boolean | [**checkMinDegree**](http://docs.google.com/javax/management/relation/RoleInfo.html#checkMinDegree(int))(int value)            Returns true if the value parameter is greater than or equal to the expected minimum degree, false otherwise. |
| [String](http://docs.google.com/java/lang/String.html) | [**getDescription**](http://docs.google.com/javax/management/relation/RoleInfo.html#getDescription())()            Returns description text for the role. |
| int | [**getMaxDegree**](http://docs.google.com/javax/management/relation/RoleInfo.html#getMaxDegree())()            Returns maximum degree for corresponding role reference. |
| int | [**getMinDegree**](http://docs.google.com/javax/management/relation/RoleInfo.html#getMinDegree())()            Returns minimum degree for corresponding role reference. |
| [String](http://docs.google.com/java/lang/String.html) | [**getName**](http://docs.google.com/javax/management/relation/RoleInfo.html#getName())()            Returns the name of the role. |
| [String](http://docs.google.com/java/lang/String.html) | [**getRefMBeanClassName**](http://docs.google.com/javax/management/relation/RoleInfo.html#getRefMBeanClassName())()            Returns name of type of MBean expected to be referenced in corresponding role. |
| boolean | [**isReadable**](http://docs.google.com/javax/management/relation/RoleInfo.html#isReadable())()            Returns read access mode for the role (true if it is readable). |
| boolean | [**isWritable**](http://docs.google.com/javax/management/relation/RoleInfo.html#isWritable())()            Returns write access mode for the role (true if it is writable). |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/management/relation/RoleInfo.html#toString())()            Returns a string describing the role info. |

| **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** |
| --- |

### ROLE\_CARDINALITY\_INFINITY

public static final int **ROLE\_CARDINALITY\_INFINITY**

To specify an unlimited cardinality.

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

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

### RoleInfo

public **RoleInfo**([String](http://docs.google.com/java/lang/String.html) roleName,  
 [String](http://docs.google.com/java/lang/String.html) mbeanClassName,  
 boolean read,  
 boolean write,  
 int min,  
 int max,  
 [String](http://docs.google.com/java/lang/String.html) descr)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [InvalidRoleInfoException](http://docs.google.com/javax/management/relation/InvalidRoleInfoException.html),  
 [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html),  
 [NotCompliantMBeanException](http://docs.google.com/javax/management/NotCompliantMBeanException.html)

Constructor.

**Parameters:**roleName - name of the role.mbeanClassName - name of the class of MBean(s) expected to be referenced in corresponding role. If an MBean *M* is in this role, then the MBean server must return true for [isInstanceOf(M, mbeanClassName)](http://docs.google.com/javax/management/MBeanServer.html#isInstanceOf(javax.management.ObjectName,%20java.lang.String)).read - flag to indicate if the corresponding role can be readwrite - flag to indicate if the corresponding role can be setmin - minimum degree for role, i.e. minimum number of MBeans to provide in corresponding role Must be less than or equal to max. (ROLE\_CARDINALITY\_INFINITY for unlimited)max - maximum degree for role, i.e. maximum number of MBeans to provide in corresponding role Must be greater than or equal to min (ROLE\_CARDINALITY\_INFINITY for unlimited)descr - description of the role (can be null) **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if null parameter [InvalidRoleInfoException](http://docs.google.com/javax/management/relation/InvalidRoleInfoException.html) - if the minimum degree is greater than the maximum degree. [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html) - As of JMX 1.2, this exception can no longer be thrown. It is retained in the declaration of this class for compatibility with existing code. [NotCompliantMBeanException](http://docs.google.com/javax/management/NotCompliantMBeanException.html) - if the class mbeanClassName is not a MBean class.

### RoleInfo

public **RoleInfo**([String](http://docs.google.com/java/lang/String.html) roleName,  
 [String](http://docs.google.com/java/lang/String.html) mbeanClassName,  
 boolean read,  
 boolean write)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html),  
 [NotCompliantMBeanException](http://docs.google.com/javax/management/NotCompliantMBeanException.html)

Constructor.

**Parameters:**roleName - name of the rolembeanClassName - name of the class of MBean(s) expected to be referenced in corresponding role. If an MBean *M* is in this role, then the MBean server must return true for [isInstanceOf(M, mbeanClassName)](http://docs.google.com/javax/management/MBeanServer.html#isInstanceOf(javax.management.ObjectName,%20java.lang.String)).read - flag to indicate if the corresponding role can be readwrite - flag to indicate if the corresponding role can be set

Minimum and maximum degrees defaulted to 1.

Description of role defaulted to null.

**Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if null parameter [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html) - As of JMX 1.2, this exception can no longer be thrown. It is retained in the declaration of this class for compatibility with existing code. [NotCompliantMBeanException](http://docs.google.com/javax/management/NotCompliantMBeanException.html) - As of JMX 1.2, this exception can no longer be thrown. It is retained in the declaration of this class for compatibility with existing code.

### RoleInfo

public **RoleInfo**([String](http://docs.google.com/java/lang/String.html) roleName,  
 [String](http://docs.google.com/java/lang/String.html) mbeanClassName)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html),  
 [NotCompliantMBeanException](http://docs.google.com/javax/management/NotCompliantMBeanException.html)

Constructor.

**Parameters:**roleName - name of the rolembeanClassName - name of the class of MBean(s) expected to be referenced in corresponding role. If an MBean *M* is in this role, then the MBean server must return true for [isInstanceOf(M, mbeanClassName)](http://docs.google.com/javax/management/MBeanServer.html#isInstanceOf(javax.management.ObjectName,%20java.lang.String)).

IsReadable and IsWritable defaulted to true.

Minimum and maximum degrees defaulted to 1.

Description of role defaulted to null.

**Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if null parameter [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html) - As of JMX 1.2, this exception can no longer be thrown. It is retained in the declaration of this class for compatibility with existing code. [NotCompliantMBeanException](http://docs.google.com/javax/management/NotCompliantMBeanException.html) - As of JMX 1.2, this exception can no longer be thrown. It is retained in the declaration of this class for compatibility with existing code.

### RoleInfo

public **RoleInfo**([RoleInfo](http://docs.google.com/javax/management/relation/RoleInfo.html) roleInfo)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Copy constructor.

**Parameters:**roleInfo - the RoleInfo instance to be copied. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if null parameter

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

### getName

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

Returns the name of the role.

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

### isReadable

public boolean **isReadable**()

Returns read access mode for the role (true if it is readable).

**Returns:**true if the role is readable.

### isWritable

public boolean **isWritable**()

Returns write access mode for the role (true if it is writable).

**Returns:**true if the role is writable.

### getDescription

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

Returns description text for the role.

**Returns:**the description of the role.

### getMinDegree

public int **getMinDegree**()

Returns minimum degree for corresponding role reference.

**Returns:**the minimum degree.

### getMaxDegree

public int **getMaxDegree**()

Returns maximum degree for corresponding role reference.

**Returns:**the maximum degree.

### getRefMBeanClassName

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

Returns name of type of MBean expected to be referenced in corresponding role.

**Returns:**the name of the referenced type.

### checkMinDegree

public boolean **checkMinDegree**(int value)

Returns true if the value parameter is greater than or equal to the expected minimum degree, false otherwise.

**Parameters:**value - the value to be checked **Returns:**true if greater than or equal to minimum degree, false otherwise.

### checkMaxDegree

public boolean **checkMaxDegree**(int value)

Returns true if the value parameter is lower than or equal to the expected maximum degree, false otherwise.

**Parameters:**value - the value to be checked **Returns:**true if lower than or equal to maximum degree, false otherwise.

### toString

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

Returns a string describing the role info.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a description of the role info.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RoleInfo.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/Role.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/relation/RoleInfoNotFoundException.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/relation/RoleInfo.html)    [**NO FRAMES**](http://docs.google.com/RoleInfo.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#2s8eyo1) | [METHOD](#35nkun2) |

[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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