| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/OpenMBeanInfo.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/openmbean/OpenMBeanConstructorInfoSupport.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/openmbean/OpenMBeanInfoSupport.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/openmbean/OpenMBeanInfo.html)    [**NO FRAMES**](http://docs.google.com/OpenMBeanInfo.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## **javax.management.openmbean**

Interface OpenMBeanInfo

**All Known Implementing Classes:** [OpenMBeanInfoSupport](http://docs.google.com/javax/management/openmbean/OpenMBeanInfoSupport.html)

public interface **OpenMBeanInfo**

Describes an Open MBean: an Open MBean is recognized as such if its [getMBeanInfo()](http://docs.google.com/javax/management/DynamicMBean.html#getMBeanInfo()) method returns an instance of a class which implements the [OpenMBeanInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html) interface, typically [OpenMBeanInfoSupport](http://docs.google.com/javax/management/openmbean/OpenMBeanInfoSupport.html).

This interface declares the same methods as the class [MBeanInfo](http://docs.google.com/javax/management/MBeanInfo.html). A class implementing this interface (typically [OpenMBeanInfoSupport](http://docs.google.com/javax/management/openmbean/OpenMBeanInfoSupport.html)) should extend [MBeanInfo](http://docs.google.com/javax/management/MBeanInfo.html).

The [getAttributes()](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html#getAttributes()), [getOperations()](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html#getOperations()) and [getConstructors()](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html#getConstructors()) methods of the implementing class should return at runtime an array of instances of a subclass of [MBeanAttributeInfo](http://docs.google.com/javax/management/MBeanAttributeInfo.html), [MBeanOperationInfo](http://docs.google.com/javax/management/MBeanOperationInfo.html) or [MBeanConstructorInfo](http://docs.google.com/javax/management/MBeanConstructorInfo.html) respectively which implement the [OpenMBeanAttributeInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanAttributeInfo.html), [OpenMBeanOperationInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html) or [OpenMBeanConstructorInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanConstructorInfo.html) interface respectively.

**Since:** 1.5

| **Method Summary** | |
| --- | --- |
| boolean | [**equals**](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Compares the specified obj parameter with this OpenMBeanInfo instance for equality. |
| [MBeanAttributeInfo](http://docs.google.com/javax/management/MBeanAttributeInfo.html)[] | [**getAttributes**](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html#getAttributes())()            Returns an array of OpenMBeanAttributeInfo instances describing each attribute in the open MBean described by this OpenMBeanInfo instance. |
| [String](http://docs.google.com/java/lang/String.html) | [**getClassName**](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html#getClassName())()            Returns the fully qualified Java class name of the open MBean instances this OpenMBeanInfo describes. |
| [MBeanConstructorInfo](http://docs.google.com/javax/management/MBeanConstructorInfo.html)[] | [**getConstructors**](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html#getConstructors())()            Returns an array of OpenMBeanConstructorInfo instances describing each constructor in the open MBean described by this OpenMBeanInfo instance. |
| [String](http://docs.google.com/java/lang/String.html) | [**getDescription**](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html#getDescription())()            Returns a human readable description of the type of open MBean instances this OpenMBeanInfo describes. |
| [MBeanNotificationInfo](http://docs.google.com/javax/management/MBeanNotificationInfo.html)[] | [**getNotifications**](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html#getNotifications())()            Returns an array of MBeanNotificationInfo instances describing each notification emitted by the open MBean described by this OpenMBeanInfo instance. |
| [MBeanOperationInfo](http://docs.google.com/javax/management/MBeanOperationInfo.html)[] | [**getOperations**](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html#getOperations())()            Returns an array of OpenMBeanOperationInfo instances describing each operation in the open MBean described by this OpenMBeanInfo instance. |
| int | [**hashCode**](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html#hashCode())()            Returns the hash code value for this OpenMBeanInfo instance. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/management/openmbean/OpenMBeanInfo.html#toString())()            Returns a string representation of this OpenMBeanInfo instance. |

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

### getClassName

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

Returns the fully qualified Java class name of the open MBean instances this OpenMBeanInfo describes.

**Returns:**the class name.

### getDescription

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

Returns a human readable description of the type of open MBean instances this OpenMBeanInfo describes.

**Returns:**the description.

### getAttributes

[MBeanAttributeInfo](http://docs.google.com/javax/management/MBeanAttributeInfo.html)[] **getAttributes**()

Returns an array of OpenMBeanAttributeInfo instances describing each attribute in the open MBean described by this OpenMBeanInfo instance. Each instance in the returned array should actually be a subclass of MBeanAttributeInfo which implements the OpenMBeanAttributeInfo interface (typically [OpenMBeanAttributeInfoSupport](http://docs.google.com/javax/management/openmbean/OpenMBeanAttributeInfoSupport.html)).

**Returns:**the attribute array.

### getOperations

[MBeanOperationInfo](http://docs.google.com/javax/management/MBeanOperationInfo.html)[] **getOperations**()

Returns an array of OpenMBeanOperationInfo instances describing each operation in the open MBean described by this OpenMBeanInfo instance. Each instance in the returned array should actually be a subclass of MBeanOperationInfo which implements the OpenMBeanOperationInfo interface (typically [OpenMBeanOperationInfoSupport](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfoSupport.html)).

**Returns:**the operation array.

### getConstructors

[MBeanConstructorInfo](http://docs.google.com/javax/management/MBeanConstructorInfo.html)[] **getConstructors**()

Returns an array of OpenMBeanConstructorInfo instances describing each constructor in the open MBean described by this OpenMBeanInfo instance. Each instance in the returned array should actually be a subclass of MBeanConstructorInfo which implements the OpenMBeanConstructorInfo interface (typically [OpenMBeanConstructorInfoSupport](http://docs.google.com/javax/management/openmbean/OpenMBeanConstructorInfoSupport.html)).

**Returns:**the constructor array.

### getNotifications

[MBeanNotificationInfo](http://docs.google.com/javax/management/MBeanNotificationInfo.html)[] **getNotifications**()

Returns an array of MBeanNotificationInfo instances describing each notification emitted by the open MBean described by this OpenMBeanInfo instance.

**Returns:**the notification array.

### equals

boolean **equals**([Object](http://docs.google.com/java/lang/Object.html) obj)

Compares the specified obj parameter with this OpenMBeanInfo instance for equality.

Returns true if and only if all of the following statements are true:

* obj is non null,
* obj also implements the OpenMBeanInfo interface,
* their class names are equal
* their infos on attributes, constructors, operations and notifications are equal

This ensures that this equals method works properly for obj parameters which are different implementations of the OpenMBeanInfo interface.

**Overrides:**[equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) in class [Object](http://docs.google.com/java/lang/Object.html) **Parameters:**obj - the object to be compared for equality with this OpenMBeanInfo instance; **Returns:**true if the specified object is equal to this OpenMBeanInfo instance.**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### hashCode

int **hashCode**()

Returns the hash code value for this OpenMBeanInfo instance.

The hash code of an OpenMBeanInfo instance is the sum of the hash codes of all elements of information used in equals comparisons (ie: its class name, and its infos on attributes, constructors, operations and notifications, where the hashCode of each of these arrays is calculated by a call to new java.util.HashSet(java.util.Arrays.asList(this.getSignature)).hashCode()).

This ensures that t1.equals(t2) implies that t1.hashCode()==t2.hashCode() for any two OpenMBeanInfo instances t1 and t2, as required by the general contract of the method [Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()).

**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**the hash code value for this OpenMBeanInfo instance**See Also:**[Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### toString

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

Returns a string representation of this OpenMBeanInfo instance.

The string representation consists of the name of this class (ie javax.management.openmbean.OpenMBeanInfo), the MBean class name, and the string representation of infos on attributes, constructors, operations and notifications of the described MBean.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a string representation of this OpenMBeanInfo instance

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/OpenMBeanInfo.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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| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

[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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