| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/OpenMBeanOperationInfoSupport.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/OpenMBeanOperationInfo.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/openmbean/OpenMBeanParameterInfo.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/openmbean/OpenMBeanOperationInfoSupport.html)    [**NO FRAMES**](http://docs.google.com/OpenMBeanOperationInfoSupport.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: FIELD | [CONSTR](#26in1rg) | [METHOD](#1ksv4uv) |

## **javax.management.openmbean**

Class OpenMBeanOperationInfoSupport

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.management.MBeanFeatureInfo](http://docs.google.com/javax/management/MBeanFeatureInfo.html)  
 [javax.management.MBeanOperationInfo](http://docs.google.com/javax/management/MBeanOperationInfo.html)  
 **javax.management.openmbean.OpenMBeanOperationInfoSupport**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Cloneable](http://docs.google.com/java/lang/Cloneable.html), [DescriptorRead](http://docs.google.com/javax/management/DescriptorRead.html), [OpenMBeanOperationInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html)

public class **OpenMBeanOperationInfoSupport**extends [MBeanOperationInfo](http://docs.google.com/javax/management/MBeanOperationInfo.html)implements [OpenMBeanOperationInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html)

Describes an operation of an Open MBean.

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

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class javax.management.**[**MBeanOperationInfo**](http://docs.google.com/javax/management/MBeanOperationInfo.html) |
| --- |
| [ACTION](http://docs.google.com/javax/management/MBeanOperationInfo.html#ACTION), [ACTION\_INFO](http://docs.google.com/javax/management/MBeanOperationInfo.html#ACTION_INFO), [INFO](http://docs.google.com/javax/management/MBeanOperationInfo.html#INFO), [UNKNOWN](http://docs.google.com/javax/management/MBeanOperationInfo.html#UNKNOWN) |

| **Fields inherited from class javax.management.**[**MBeanFeatureInfo**](http://docs.google.com/javax/management/MBeanFeatureInfo.html) |
| --- |
| [description](http://docs.google.com/javax/management/MBeanFeatureInfo.html#description), [name](http://docs.google.com/javax/management/MBeanFeatureInfo.html#name) |

| **Constructor Summary** | |
| --- | --- |
| [**OpenMBeanOperationInfoSupport**](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfoSupport.html#OpenMBeanOperationInfoSupport(java.lang.String,%20java.lang.String,%20javax.management.openmbean.OpenMBeanParameterInfo%5B%5D,%20javax.management.openmbean.OpenType,%20int))([String](http://docs.google.com/java/lang/String.html) name, [String](http://docs.google.com/java/lang/String.html) description, [OpenMBeanParameterInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanParameterInfo.html)[] signature, [OpenType](http://docs.google.com/javax/management/openmbean/OpenType.html)<?> returnOpenType, int impact)            Constructs an OpenMBeanOperationInfoSupport instance, which describes the operation of a class of open MBeans, with the specified name, description, signature, returnOpenType and impact. |
| [**OpenMBeanOperationInfoSupport**](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfoSupport.html#OpenMBeanOperationInfoSupport(java.lang.String,%20java.lang.String,%20javax.management.openmbean.OpenMBeanParameterInfo%5B%5D,%20javax.management.openmbean.OpenType,%20int,%20javax.management.Descriptor))([String](http://docs.google.com/java/lang/String.html) name, [String](http://docs.google.com/java/lang/String.html) description, [OpenMBeanParameterInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanParameterInfo.html)[] signature, [OpenType](http://docs.google.com/javax/management/openmbean/OpenType.html)<?> returnOpenType, int impact, [Descriptor](http://docs.google.com/javax/management/Descriptor.html) descriptor)            Constructs an OpenMBeanOperationInfoSupport instance, which describes the operation of a class of open MBeans, with the specified name, description, signature, returnOpenType, impact, and descriptor. |

| **Method Summary** | |
| --- | --- |
| boolean | [**equals**](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfoSupport.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Compares the specified obj parameter with this OpenMBeanOperationInfoSupport instance for equality. |
| [OpenType](http://docs.google.com/javax/management/openmbean/OpenType.html)<?> | [**getReturnOpenType**](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfoSupport.html#getReturnOpenType())()            Returns the *open type* of the values returned by the operation described by this OpenMBeanOperationInfo instance. |
| int | [**hashCode**](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfoSupport.html#hashCode())()            Returns the hash code value for this OpenMBeanOperationInfoSupport instance. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfoSupport.html#toString())()            Returns a string representation of this OpenMBeanOperationInfoSupport instance. |

| **Methods inherited from class javax.management.**[**MBeanOperationInfo**](http://docs.google.com/javax/management/MBeanOperationInfo.html) |
| --- |
| [clone](http://docs.google.com/javax/management/MBeanOperationInfo.html#clone()), [getImpact](http://docs.google.com/javax/management/MBeanOperationInfo.html#getImpact()), [getReturnType](http://docs.google.com/javax/management/MBeanOperationInfo.html#getReturnType()), [getSignature](http://docs.google.com/javax/management/MBeanOperationInfo.html#getSignature()) |

| **Methods inherited from class javax.management.**[**MBeanFeatureInfo**](http://docs.google.com/javax/management/MBeanFeatureInfo.html) |
| --- |
| [getDescription](http://docs.google.com/javax/management/MBeanFeatureInfo.html#getDescription()), [getDescriptor](http://docs.google.com/javax/management/MBeanFeatureInfo.html#getDescriptor()), [getName](http://docs.google.com/javax/management/MBeanFeatureInfo.html#getName()) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [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)) |

| **Methods inherited from interface javax.management.openmbean.**[**OpenMBeanOperationInfo**](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html) |
| --- |
| [getDescription](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html#getDescription()), [getImpact](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html#getImpact()), [getName](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html#getName()), [getReturnType](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html#getReturnType()), [getSignature](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html#getSignature()) |

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

### OpenMBeanOperationInfoSupport

public **OpenMBeanOperationInfoSupport**([String](http://docs.google.com/java/lang/String.html) name,  
 [String](http://docs.google.com/java/lang/String.html) description,  
 [OpenMBeanParameterInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanParameterInfo.html)[] signature,  
 [OpenType](http://docs.google.com/javax/management/openmbean/OpenType.html)<?> returnOpenType,  
 int impact)

Constructs an OpenMBeanOperationInfoSupport instance, which describes the operation of a class of open MBeans, with the specified name, description, signature, returnOpenType and impact.

The signature array parameter is internally copied, so that subsequent changes to the array referenced by signature have no effect on this instance.

**Parameters:**name - cannot be a null or empty string.description - cannot be a null or empty string.signature - can be null or empty if there are no parameters to describe.returnOpenType - cannot be null: use SimpleType.VOID for operations that return nothing.impact - must be one of ACTION, ACTION\_INFO, INFO, or UNKNOWN. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if name or description are null or empty string, or returnOpenType is null, or impact is not one of ACTION, ACTION\_INFO, INFO, or UNKNOWN. [ArrayStoreException](http://docs.google.com/java/lang/ArrayStoreException.html) - If signature is not an array of instances of a subclass of MBeanParameterInfo.

### OpenMBeanOperationInfoSupport

public **OpenMBeanOperationInfoSupport**([String](http://docs.google.com/java/lang/String.html) name,  
 [String](http://docs.google.com/java/lang/String.html) description,  
 [OpenMBeanParameterInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanParameterInfo.html)[] signature,  
 [OpenType](http://docs.google.com/javax/management/openmbean/OpenType.html)<?> returnOpenType,  
 int impact,  
 [Descriptor](http://docs.google.com/javax/management/Descriptor.html) descriptor)

Constructs an OpenMBeanOperationInfoSupport instance, which describes the operation of a class of open MBeans, with the specified name, description, signature, returnOpenType, impact, and descriptor.

The signature array parameter is internally copied, so that subsequent changes to the array referenced by signature have no effect on this instance.

**Parameters:**name - cannot be a null or empty string.description - cannot be a null or empty string.signature - can be null or empty if there are no parameters to describe.returnOpenType - cannot be null: use SimpleType.VOID for operations that return nothing.impact - must be one of ACTION, ACTION\_INFO, INFO, or UNKNOWN.descriptor - The descriptor for the operation. This may be null, which is equivalent to an empty descriptor. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if name or description are null or empty string, or returnOpenType is null, or impact is not one of ACTION, ACTION\_INFO, INFO, or UNKNOWN. [ArrayStoreException](http://docs.google.com/java/lang/ArrayStoreException.html) - If signature is not an array of instances of a subclass of MBeanParameterInfo.**Since:** 1.6

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

### getReturnOpenType

public [OpenType](http://docs.google.com/javax/management/openmbean/OpenType.html)<?> **getReturnOpenType**()

Returns the *open type* of the values returned by the operation described by this OpenMBeanOperationInfo instance.

**Specified by:**[getReturnOpenType](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html#getReturnOpenType()) in interface [OpenMBeanOperationInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html) **Returns:**the return type.

### equals

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

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

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

* obj is non null,
* obj also implements the OpenMBeanOperationInfo interface,
* their names are equal
* their signatures are equal
* their return open types are equal
* their impacts are equal

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

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

### hashCode

public int **hashCode**()

Returns the hash code value for this OpenMBeanOperationInfoSupport instance.

The hash code of an OpenMBeanOperationInfoSupport instance is the sum of the hash codes of all elements of information used in equals comparisons (ie: its name, return open type, impact and signature, where the signature hashCode is calculated by a call to java.util.Arrays.asList(this.getSignature).hashCode()).

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

However, note that another instance of a class implementing the OpenMBeanOperationInfo interface may be equal to this OpenMBeanOperationInfoSupport instance as defined by [equals(java.lang.Object)](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfoSupport.html#equals(java.lang.Object)), but may have a different hash code if it is calculated differently.

As OpenMBeanOperationInfoSupport instances are immutable, the hash code for this instance is calculated once, on the first call to hashCode, and then the same value is returned for subsequent calls.

**Specified by:**[hashCode](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html#hashCode()) in interface [OpenMBeanOperationInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html)**Overrides:**[hashCode](http://docs.google.com/javax/management/MBeanOperationInfo.html#hashCode()) in class [MBeanOperationInfo](http://docs.google.com/javax/management/MBeanOperationInfo.html) **Returns:**the hash code value for this OpenMBeanOperationInfoSupport 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

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

Returns a string representation of this OpenMBeanOperationInfoSupport instance.

The string representation consists of the name of this class (ie javax.management.openmbean.OpenMBeanOperationInfoSupport), and the name, signature, return open type and impact of the described operation and the string representation of its descriptor.

As OpenMBeanOperationInfoSupport instances are immutable, the string representation for this instance is calculated once, on the first call to toString, and then the same value is returned for subsequent calls.

**Specified by:**[toString](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html#toString()) in interface [OpenMBeanOperationInfo](http://docs.google.com/javax/management/openmbean/OpenMBeanOperationInfo.html)**Overrides:**[toString](http://docs.google.com/javax/management/MBeanOperationInfo.html#toString()) in class [MBeanOperationInfo](http://docs.google.com/javax/management/MBeanOperationInfo.html) **Returns:**a string representation of this OpenMBeanOperationInfoSupport 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/OpenMBeanOperationInfoSupport.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/OpenMBeanOperationInfo.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/openmbean/OpenMBeanParameterInfo.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/openmbean/OpenMBeanOperationInfoSupport.html)    [**NO FRAMES**](http://docs.google.com/OpenMBeanOperationInfoSupport.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: FIELD | [CONSTR](#26in1rg) | [METHOD](#1ksv4uv) |

[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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