| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ModelMBeanInfoSupport.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/modelmbean/ModelMBeanInfo.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/modelmbean/ModelMBeanNotificationBroadcaster.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/modelmbean/ModelMBeanInfoSupport.html)    [**NO FRAMES**](http://docs.google.com/ModelMBeanInfoSupport.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#26in1rg) |

## **javax.management.modelmbean**

Class ModelMBeanInfoSupport

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.management.MBeanInfo](http://docs.google.com/javax/management/MBeanInfo.html)  
 **javax.management.modelmbean.ModelMBeanInfoSupport**

**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), [ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html)

public class **ModelMBeanInfoSupport**extends [MBeanInfo](http://docs.google.com/javax/management/MBeanInfo.html)implements [ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html)

This class represents the meta data for ModelMBeans. Descriptors have been added on the meta data objects.

Java resources wishing to be manageable instantiate the ModelMBean using the MBeanServer's createMBean method. The resource then sets the ModelMBeanInfo and Descriptors for the ModelMBean instance. The attributes and operations exposed via the ModelMBeanInfo for the ModelMBean are accessible from MBeans, connectors/adaptors like other MBeans. Through the Descriptors, values and methods in the managed application can be defined and mapped to attributes and operations of the ModelMBean. This mapping can be defined during development in a file or dynamically and programmatically at runtime.

Every ModelMBean which is instantiated in the MBeanServer becomes manageable: its attributes and operations become remotely accessible through the connectors/adaptors connected to that MBeanServer. A Java object cannot be registered in the MBeanServer unless it is a JMX compliant MBean. By instantiating a ModelMBean, resources are guaranteed that the MBean is valid. MBeanException and RuntimeOperationsException must be thrown on every public method. This allows for wrapping exceptions from distributed communications (RMI, EJB, etc.)

The **serialVersionUID** of this class is -1935722590756516193L.

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

| **Constructor Summary** | |
| --- | --- |
| [**ModelMBeanInfoSupport**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#ModelMBeanInfoSupport(javax.management.modelmbean.ModelMBeanInfo))([ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html) mbi)            Constructs a ModelMBeanInfoSupport which is a duplicate of the given ModelMBeanInfo. |
| [**ModelMBeanInfoSupport**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#ModelMBeanInfoSupport(java.lang.String,%20java.lang.String,%20javax.management.modelmbean.ModelMBeanAttributeInfo%5B%5D,%20javax.management.modelmbean.ModelMBeanConstructorInfo%5B%5D,%20javax.management.modelmbean.ModelMBeanOperationInfo%5B%5D,%20javax.management.modelmbean.ModelMBeanNotificationInfo%5B%5D))([String](http://docs.google.com/java/lang/String.html) className, [String](http://docs.google.com/java/lang/String.html) description, [ModelMBeanAttributeInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanAttributeInfo.html)[] attributes, [ModelMBeanConstructorInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanConstructorInfo.html)[] constructors, [ModelMBeanOperationInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanOperationInfo.html)[] operations, [ModelMBeanNotificationInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanNotificationInfo.html)[] notifications)            Creates a ModelMBeanInfoSupport with the provided information, but the descriptor is a default. |
| [**ModelMBeanInfoSupport**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#ModelMBeanInfoSupport(java.lang.String,%20java.lang.String,%20javax.management.modelmbean.ModelMBeanAttributeInfo%5B%5D,%20javax.management.modelmbean.ModelMBeanConstructorInfo%5B%5D,%20javax.management.modelmbean.ModelMBeanOperationInfo%5B%5D,%20javax.management.modelmbean.ModelMBeanNotificationInfo%5B%5D,%20javax.management.Descriptor))([String](http://docs.google.com/java/lang/String.html) className, [String](http://docs.google.com/java/lang/String.html) description, [ModelMBeanAttributeInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanAttributeInfo.html)[] attributes, [ModelMBeanConstructorInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanConstructorInfo.html)[] constructors, [ModelMBeanOperationInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanOperationInfo.html)[] operations, [ModelMBeanNotificationInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanNotificationInfo.html)[] notifications, [Descriptor](http://docs.google.com/javax/management/Descriptor.html) mbeandescriptor)            Creates a ModelMBeanInfoSupport with the provided information and the descriptor given in parameter. |

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**clone**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#clone())()            Returns a shallow clone of this instance. |
| [ModelMBeanAttributeInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanAttributeInfo.html) | [**getAttribute**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#getAttribute(java.lang.String))([String](http://docs.google.com/java/lang/String.html) inName)            Returns a ModelMBeanAttributeInfo requested by name. |
| [ModelMBeanConstructorInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanConstructorInfo.html) | [**getConstructor**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#getConstructor(java.lang.String))([String](http://docs.google.com/java/lang/String.html) inName)            Returns the ModelMBeanConstructorInfo requested by name. |
| [Descriptor](http://docs.google.com/javax/management/Descriptor.html) | [**getDescriptor**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#getDescriptor())()            Get the descriptor of this MBeanInfo. |
| [Descriptor](http://docs.google.com/javax/management/Descriptor.html) | [**getDescriptor**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#getDescriptor(java.lang.String))([String](http://docs.google.com/java/lang/String.html) inDescriptorName)            Returns a Descriptor requested by name. |
| [Descriptor](http://docs.google.com/javax/management/Descriptor.html) | [**getDescriptor**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#getDescriptor(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) inDescriptorName, [String](http://docs.google.com/java/lang/String.html) inDescriptorType)            Returns a Descriptor requested by name and descriptorType. |
| [Descriptor](http://docs.google.com/javax/management/Descriptor.html)[] | [**getDescriptors**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#getDescriptors(java.lang.String))([String](http://docs.google.com/java/lang/String.html) inDescriptorType)            Returns a Descriptor array consisting of all Descriptors for the ModelMBeanInfo of type inDescriptorType. |
| [Descriptor](http://docs.google.com/javax/management/Descriptor.html) | [**getMBeanDescriptor**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#getMBeanDescriptor())()            Returns the ModelMBean's descriptor which contains MBean wide policies. |
| [ModelMBeanNotificationInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanNotificationInfo.html) | [**getNotification**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#getNotification(java.lang.String))([String](http://docs.google.com/java/lang/String.html) inName)            Returns a ModelMBeanNotificationInfo requested by name. |
| [ModelMBeanOperationInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanOperationInfo.html) | [**getOperation**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#getOperation(java.lang.String))([String](http://docs.google.com/java/lang/String.html) inName)            Returns a ModelMBeanOperationInfo requested by name. |
| void | [**setDescriptor**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#setDescriptor(javax.management.Descriptor,%20java.lang.String))([Descriptor](http://docs.google.com/javax/management/Descriptor.html) inDescriptor, [String](http://docs.google.com/java/lang/String.html) inDescriptorType)            Sets descriptors in the info array of type inDescriptorType for the ModelMBean. |
| void | [**setDescriptors**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#setDescriptors(javax.management.Descriptor%5B%5D))([Descriptor](http://docs.google.com/javax/management/Descriptor.html)[] inDescriptors)            Adds or replaces descriptors in the ModelMBeanInfo. |
| void | [**setMBeanDescriptor**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#setMBeanDescriptor(javax.management.Descriptor))([Descriptor](http://docs.google.com/javax/management/Descriptor.html) inMBeanDescriptor)            Sets the ModelMBean's descriptor. |

| **Methods inherited from class javax.management.**[**MBeanInfo**](http://docs.google.com/javax/management/MBeanInfo.html) |
| --- |
| [equals](http://docs.google.com/javax/management/MBeanInfo.html#equals(java.lang.Object)), [getAttributes](http://docs.google.com/javax/management/MBeanInfo.html#getAttributes()), [getClassName](http://docs.google.com/javax/management/MBeanInfo.html#getClassName()), [getConstructors](http://docs.google.com/javax/management/MBeanInfo.html#getConstructors()), [getDescription](http://docs.google.com/javax/management/MBeanInfo.html#getDescription()), [getNotifications](http://docs.google.com/javax/management/MBeanInfo.html#getNotifications()), [getOperations](http://docs.google.com/javax/management/MBeanInfo.html#getOperations()), [hashCode](http://docs.google.com/javax/management/MBeanInfo.html#hashCode()), [toString](http://docs.google.com/javax/management/MBeanInfo.html#toString()) |

| **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.modelmbean.**[**ModelMBeanInfo**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html) |
| --- |
| [getAttributes](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getAttributes()), [getClassName](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getClassName()), [getConstructors](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getConstructors()), [getDescription](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getDescription()), [getNotifications](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getNotifications()), [getOperations](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getOperations()) |

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

### ModelMBeanInfoSupport

public **ModelMBeanInfoSupport**([ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html) mbi)

Constructs a ModelMBeanInfoSupport which is a duplicate of the given ModelMBeanInfo. The returned object is a shallow copy of the given object. Neither the Descriptor nor the contained arrays (ModelMBeanAttributeInfo[] etc) are cloned. This method is chiefly of interest to modify the Descriptor of the returned instance via [setDescriptor](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#setDescriptor(javax.management.Descriptor,%20java.lang.String)) without affecting the Descriptor of the original object.

**Parameters:**mbi - the ModelMBeanInfo instance from which the ModelMBeanInfo being created is initialized.

### ModelMBeanInfoSupport

public **ModelMBeanInfoSupport**([String](http://docs.google.com/java/lang/String.html) className,  
 [String](http://docs.google.com/java/lang/String.html) description,  
 [ModelMBeanAttributeInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanAttributeInfo.html)[] attributes,  
 [ModelMBeanConstructorInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanConstructorInfo.html)[] constructors,  
 [ModelMBeanOperationInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanOperationInfo.html)[] operations,  
 [ModelMBeanNotificationInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanNotificationInfo.html)[] notifications)

Creates a ModelMBeanInfoSupport with the provided information, but the descriptor is a default. The default descriptor is: name=mbeanName, descriptorType=mbean, displayName=ClassName, persistPolicy=never, log=F, visibility=1

**Parameters:**className - classname of the MBeandescription - human readable description of the ModelMBeanattributes - array of ModelMBeanAttributeInfo objects which have descriptorsconstructors - array of ModelMBeanConstructorInfo objects which have descriptorsoperations - array of ModelMBeanOperationInfo objects which have descriptorsnotifications - array of ModelMBeanNotificationInfo objects which have descriptors

### ModelMBeanInfoSupport

public **ModelMBeanInfoSupport**([String](http://docs.google.com/java/lang/String.html) className,  
 [String](http://docs.google.com/java/lang/String.html) description,  
 [ModelMBeanAttributeInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanAttributeInfo.html)[] attributes,  
 [ModelMBeanConstructorInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanConstructorInfo.html)[] constructors,  
 [ModelMBeanOperationInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanOperationInfo.html)[] operations,  
 [ModelMBeanNotificationInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanNotificationInfo.html)[] notifications,  
 [Descriptor](http://docs.google.com/javax/management/Descriptor.html) mbeandescriptor)

Creates a ModelMBeanInfoSupport with the provided information and the descriptor given in parameter.

**Parameters:**className - classname of the MBeandescription - human readable description of the ModelMBeanattributes - array of ModelMBeanAttributeInfo objects which have descriptorsconstructors - array of ModelMBeanConstructorInfo objects which have descriptoroperations - array of ModelMBeanOperationInfo objects which have descriptornotifications - array of ModelMBeanNotificationInfo objects which have descriptormbeandescriptor - descriptor to be used as the MBeanDescriptor containing MBean wide policy. If the descriptor is null, a default descriptor will be constructed. The default descriptor is: name=className, descriptorType=mbean, displayName=className, persistPolicy=never, log=F, visibility=1. If the descriptor does not contain all these fields, they will be added with these default values. **Throws:** [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html) - Wraps an IllegalArgumentException for invalid descriptor passed in parameter. (see [getMBeanDescriptor](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#getMBeanDescriptor()) for the definition of a valid MBean descriptor.)

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

### clone

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

Returns a shallow clone of this instance. Neither the Descriptor nor the contained arrays (ModelMBeanAttributeInfo[] etc) are cloned. This method is chiefly of interest to modify the Descriptor of the clone via [setDescriptor](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#setDescriptor(javax.management.Descriptor,%20java.lang.String)) without affecting the Descriptor of the original object.

**Specified by:**[clone](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#clone()) in interface [ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html)**Overrides:**[clone](http://docs.google.com/javax/management/MBeanInfo.html#clone()) in class [MBeanInfo](http://docs.google.com/javax/management/MBeanInfo.html) **Returns:**a shallow clone of this instance.**See Also:**[Cloneable](http://docs.google.com/java/lang/Cloneable.html)

### getDescriptors

public [Descriptor](http://docs.google.com/javax/management/Descriptor.html)[] **getDescriptors**([String](http://docs.google.com/java/lang/String.html) inDescriptorType)  
 throws [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html)

**Description copied from interface:** [**ModelMBeanInfo**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getDescriptors(java.lang.String)) Returns a Descriptor array consisting of all Descriptors for the ModelMBeanInfo of type inDescriptorType.

**Specified by:**[getDescriptors](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getDescriptors(java.lang.String)) in interface [ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html) **Parameters:**inDescriptorType - value of descriptorType field that must be set for the descriptor to be returned. Must be "mbean", "attribute", "operation", "constructor" or "notification". If it is null or empty then all types will be returned. **Returns:**Descriptor array containing all descriptors for the ModelMBean if type inDescriptorType. **Throws:** [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a distributed communication Exception. [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html) - Wraps an IllegalArgumentException when the descriptorType in parameter is not one of: "mbean", "attribute", "operation", "constructor", "notification", empty or null.**See Also:**[ModelMBeanInfo.setDescriptors(javax.management.Descriptor[])](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#setDescriptors(javax.management.Descriptor%5B%5D))

### setDescriptors

public void **setDescriptors**([Descriptor](http://docs.google.com/javax/management/Descriptor.html)[] inDescriptors)  
 throws [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html)

**Description copied from interface:** [**ModelMBeanInfo**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#setDescriptors(javax.management.Descriptor%5B%5D)) Adds or replaces descriptors in the ModelMBeanInfo.

**Specified by:**[setDescriptors](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#setDescriptors(javax.management.Descriptor%5B%5D)) in interface [ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html) **Parameters:**inDescriptors - The descriptors to be set in the ModelMBeanInfo. Null elements of the list will be ignored. All descriptors must have name and descriptorType fields. **Throws:** [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a distributed communication Exception. [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html) - Wraps an IllegalArgumentException for a null or invalid descriptor.**See Also:**[ModelMBeanInfo.getDescriptors(java.lang.String)](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getDescriptors(java.lang.String))

### getDescriptor

public [Descriptor](http://docs.google.com/javax/management/Descriptor.html) **getDescriptor**([String](http://docs.google.com/java/lang/String.html) inDescriptorName)  
 throws [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html)

Returns a Descriptor requested by name.

**Parameters:**inDescriptorName - The name of the descriptor. **Returns:**Descriptor containing a descriptor for the ModelMBean with the same name. If no descriptor is found, null is returned. **Throws:** [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a distributed communication Exception. [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html) - Wraps an IllegalArgumentException for null name.**See Also:**[setDescriptor(javax.management.Descriptor, java.lang.String)](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfoSupport.html#setDescriptor(javax.management.Descriptor,%20java.lang.String))

### getDescriptor

public [Descriptor](http://docs.google.com/javax/management/Descriptor.html) **getDescriptor**([String](http://docs.google.com/java/lang/String.html) inDescriptorName,  
 [String](http://docs.google.com/java/lang/String.html) inDescriptorType)  
 throws [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html)

**Description copied from interface:** [**ModelMBeanInfo**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getDescriptor(java.lang.String,%20java.lang.String)) Returns a Descriptor requested by name and descriptorType.

**Specified by:**[getDescriptor](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getDescriptor(java.lang.String,%20java.lang.String)) in interface [ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html) **Parameters:**inDescriptorName - The name of the descriptor.inDescriptorType - The type of the descriptor being requested. If this is null or empty then all types are searched. Valid types are 'mbean', 'attribute', 'constructor' 'operation', and 'notification'. This value will be equal to the 'descriptorType' field in the descriptor that is returned. **Returns:**Descriptor containing the descriptor for the ModelMBean with the same name and descriptorType. If no descriptor is found, null is returned. **Throws:** [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a distributed communication Exception. [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html) - Wraps an IllegalArgumentException for a null descriptor name or null or invalid type. The type must be "mbean","attribute", "constructor", "operation", or "notification".**See Also:**[ModelMBeanInfo.setDescriptor(javax.management.Descriptor, java.lang.String)](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#setDescriptor(javax.management.Descriptor,%20java.lang.String))

### setDescriptor

public void **setDescriptor**([Descriptor](http://docs.google.com/javax/management/Descriptor.html) inDescriptor,  
 [String](http://docs.google.com/java/lang/String.html) inDescriptorType)  
 throws [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html)

**Description copied from interface:** [**ModelMBeanInfo**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#setDescriptor(javax.management.Descriptor,%20java.lang.String)) Sets descriptors in the info array of type inDescriptorType for the ModelMBean. The setDescriptor method of the corresponding ModelMBean\*Info will be called to set the specified descriptor.

**Specified by:**[setDescriptor](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#setDescriptor(javax.management.Descriptor,%20java.lang.String)) in interface [ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html) **Parameters:**inDescriptor - The descriptor to be set in the ModelMBean. It must NOT be null. All descriptors must have name and descriptorType fields.inDescriptorType - The type of the descriptor being set. If this is null then the descriptorType field in the descriptor is used. If specified this value must be set in the descriptorType field in the descriptor. Must be "mbean","attribute", "constructor", "operation", or "notification". **Throws:** [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a distributed communication Exception. [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html) - Wraps an IllegalArgumentException for illegal or null arguments or if the name field of the descriptor is not found in the corresponding MBeanAttributeInfo or MBeanConstructorInfo or MBeanNotificationInfo or MBeanOperationInfo.**See Also:**[ModelMBeanInfo.getDescriptor(java.lang.String, java.lang.String)](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getDescriptor(java.lang.String,%20java.lang.String))

### getAttribute

public [ModelMBeanAttributeInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanAttributeInfo.html) **getAttribute**([String](http://docs.google.com/java/lang/String.html) inName)  
 throws [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html)

**Description copied from interface:** [**ModelMBeanInfo**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getAttribute(java.lang.String)) Returns a ModelMBeanAttributeInfo requested by name.

**Specified by:**[getAttribute](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getAttribute(java.lang.String)) in interface [ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html) **Parameters:**inName - The name of the ModelMBeanAttributeInfo to get. If no ModelMBeanAttributeInfo exists for this name null is returned. **Returns:**the attribute info for the named attribute, or null if there is none. **Throws:** [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a distributed communication Exception. [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html) - Wraps an IllegalArgumentException for a null attribute name.

### getOperation

public [ModelMBeanOperationInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanOperationInfo.html) **getOperation**([String](http://docs.google.com/java/lang/String.html) inName)  
 throws [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html)

**Description copied from interface:** [**ModelMBeanInfo**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getOperation(java.lang.String)) Returns a ModelMBeanOperationInfo requested by name.

**Specified by:**[getOperation](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getOperation(java.lang.String)) in interface [ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html) **Parameters:**inName - The name of the ModelMBeanOperationInfo to get. If no ModelMBeanOperationInfo exists for this name null is returned. **Returns:**the operation info for the named operation, or null if there is none. **Throws:** [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a distributed communication Exception. [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html) - Wraps an IllegalArgumentException for a null operation name.

### getConstructor

public [ModelMBeanConstructorInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanConstructorInfo.html) **getConstructor**([String](http://docs.google.com/java/lang/String.html) inName)  
 throws [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html)

Returns the ModelMBeanConstructorInfo requested by name. If no ModelMBeanConstructorInfo exists for this name null is returned.

**Parameters:**inName - the name of the constructor. **Returns:**the constructor info for the named constructor, or null if there is none. **Throws:** [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a distributed communication Exception. [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html) - Wraps an IllegalArgumentException for a null constructor name.

### getNotification

public [ModelMBeanNotificationInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanNotificationInfo.html) **getNotification**([String](http://docs.google.com/java/lang/String.html) inName)  
 throws [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html)

**Description copied from interface:** [**ModelMBeanInfo**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getNotification(java.lang.String)) Returns a ModelMBeanNotificationInfo requested by name.

**Specified by:**[getNotification](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getNotification(java.lang.String)) in interface [ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html) **Parameters:**inName - The name of the ModelMBeanNotificationInfo to get. If no ModelMBeanNotificationInfo exists for this name null is returned. **Returns:**the info for the named notification, or null if there is none. **Throws:** [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a distributed communication Exception. [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html) - Wraps an IllegalArgumentException for a null notification name.

### getDescriptor

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

**Description copied from class:** [**MBeanInfo**](http://docs.google.com/javax/management/MBeanInfo.html#getDescriptor()) Get the descriptor of this MBeanInfo. Changing the returned value will have no affect on the original descriptor.

**Specified by:**[getDescriptor](http://docs.google.com/javax/management/DescriptorRead.html#getDescriptor()) in interface [DescriptorRead](http://docs.google.com/javax/management/DescriptorRead.html)**Overrides:**[getDescriptor](http://docs.google.com/javax/management/MBeanInfo.html#getDescriptor()) in class [MBeanInfo](http://docs.google.com/javax/management/MBeanInfo.html) **Returns:**a descriptor that is either immutable or a copy of the original.**Since:** 1.6

### getMBeanDescriptor

public [Descriptor](http://docs.google.com/javax/management/Descriptor.html) **getMBeanDescriptor**()  
 throws [MBeanException](http://docs.google.com/javax/management/MBeanException.html)

**Description copied from interface:** [**ModelMBeanInfo**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getMBeanDescriptor()) Returns the ModelMBean's descriptor which contains MBean wide policies. This descriptor contains metadata about the MBean and default policies for persistence and caching.

The fields in the descriptor are defined, but not limited to, the following:

name : MBean name   
 descriptorType : must be "mbean"   
 displayName : name of attribute to be used in displays   
 persistPolicy : OnUpdate|OnTimer|NoMoreOftenThan|OnUnregister|Always|Never   
 persistLocation : The fully qualified directory name where the MBean should be persisted (if appropriate)  
 persistFile : File name into which the MBean should be persisted  
 persistPeriod : seconds - frequency of persist cycle for OnTime and NoMoreOftenThan PersistPolicy   
 currencyTimeLimit : how long value is valid, <0 never, =0 always, >0 seconds   
 log : where t: log all notifications f: log no notifications  
 logfile : fully qualified filename to log events to  
 visibility : 1-4 where 1: always visible 4: rarely visible  
 export : name to be used to export/expose this MBean so that it is findable by  
 other JMX Agents.   
 presentationString : xml formatted string to allow presentation of data to be associated with the MBean.

The default descriptor is: name=mbeanName,descriptorType=mbean, displayName=this.getClassName(), persistPolicy=never,log=F,export=F,visibility=1 If the descriptor does not contain all these fields, they will be added with these default values.

**Note:** because of inconsistencies in previous versions of this specification, it is recommended not to use negative or zero values for currencyTimeLimit. To indicate that a cached value is never valid, omit the currencyTimeLimit field. To indicate that it is always valid, use a very large number for this field.

**Specified by:**[getMBeanDescriptor](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getMBeanDescriptor()) in interface [ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html) **Returns:**the MBean descriptor. **Throws:** [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a distributed communication Exception.**See Also:**[ModelMBeanInfo.setMBeanDescriptor(javax.management.Descriptor)](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#setMBeanDescriptor(javax.management.Descriptor))

### setMBeanDescriptor

public void **setMBeanDescriptor**([Descriptor](http://docs.google.com/javax/management/Descriptor.html) inMBeanDescriptor)  
 throws [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html)

**Description copied from interface:** [**ModelMBeanInfo**](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#setMBeanDescriptor(javax.management.Descriptor)) Sets the ModelMBean's descriptor. This descriptor contains default, MBean wide metadata about the MBean and default policies for persistence and caching. This operation does a complete replacement of the descriptor, no merging is done. If the descriptor to set to is null then the default descriptor will be created. The default descriptor is: name=mbeanName,descriptorType=mbean, displayName=this.getClassName(), persistPolicy=never,log=F,export=F,visibility=1 If the descriptor does not contain all these fields, they will be added with these default values. See [getMBeanDescriptor](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getMBeanDescriptor()) method javadoc for description of valid field names.

**Specified by:**[setMBeanDescriptor](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#setMBeanDescriptor(javax.management.Descriptor)) in interface [ModelMBeanInfo](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html) **Parameters:**inMBeanDescriptor - the descriptor to set. **Throws:** [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a distributed communication Exception. [RuntimeOperationsException](http://docs.google.com/javax/management/RuntimeOperationsException.html) - Wraps an IllegalArgumentException for invalid descriptor.**See Also:**[ModelMBeanInfo.getMBeanDescriptor()](http://docs.google.com/javax/management/modelmbean/ModelMBeanInfo.html#getMBeanDescriptor())

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ModelMBeanInfoSupport.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/modelmbean/ModelMBeanInfo.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/modelmbean/ModelMBeanNotificationBroadcaster.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/modelmbean/ModelMBeanInfoSupport.html)    [**NO FRAMES**](http://docs.google.com/ModelMBeanInfoSupport.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#26in1rg) |

[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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