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

## **javax.management**

Interface DynamicMBean

**All Known Subinterfaces:** [ModelMBean](http://docs.google.com/javax/management/modelmbean/ModelMBean.html) **All Known Implementing Classes:** [RequiredModelMBean](http://docs.google.com/javax/management/modelmbean/RequiredModelMBean.html), [StandardEmitterMBean](http://docs.google.com/javax/management/StandardEmitterMBean.html), [StandardMBean](http://docs.google.com/javax/management/StandardMBean.html)

public interface **DynamicMBean**

Defines the methods that should be implemented by a Dynamic MBean (MBean that exposes a dynamic management interface).

**Since:** 1.5

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getAttribute**](http://docs.google.com/javax/management/DynamicMBean.html#getAttribute(java.lang.String))([String](http://docs.google.com/java/lang/String.html) attribute)            Obtain the value of a specific attribute of the Dynamic MBean. |
| [AttributeList](http://docs.google.com/javax/management/AttributeList.html) | [**getAttributes**](http://docs.google.com/javax/management/DynamicMBean.html#getAttributes(java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html)[] attributes)            Get the values of several attributes of the Dynamic MBean. |
| [MBeanInfo](http://docs.google.com/javax/management/MBeanInfo.html) | [**getMBeanInfo**](http://docs.google.com/javax/management/DynamicMBean.html#getMBeanInfo())()            Provides the exposed attributes and actions of the Dynamic MBean using an MBeanInfo object. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**invoke**](http://docs.google.com/javax/management/DynamicMBean.html#invoke(java.lang.String,%20java.lang.Object%5B%5D,%20java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html) actionName, [Object](http://docs.google.com/java/lang/Object.html)[] params, [String](http://docs.google.com/java/lang/String.html)[] signature)            Allows an action to be invoked on the Dynamic MBean. |
| void | [**setAttribute**](http://docs.google.com/javax/management/DynamicMBean.html#setAttribute(javax.management.Attribute))([Attribute](http://docs.google.com/javax/management/Attribute.html) attribute)            Set the value of a specific attribute of the Dynamic MBean. |
| [AttributeList](http://docs.google.com/javax/management/AttributeList.html) | [**setAttributes**](http://docs.google.com/javax/management/DynamicMBean.html#setAttributes(javax.management.AttributeList))([AttributeList](http://docs.google.com/javax/management/AttributeList.html) attributes)            Sets the values of several attributes of the Dynamic MBean. |

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

### getAttribute

[Object](http://docs.google.com/java/lang/Object.html) **getAttribute**([String](http://docs.google.com/java/lang/String.html) attribute)  
 throws [AttributeNotFoundException](http://docs.google.com/javax/management/AttributeNotFoundException.html),  
 [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [ReflectionException](http://docs.google.com/javax/management/ReflectionException.html)

Obtain the value of a specific attribute of the Dynamic MBean.

**Parameters:**attribute - The name of the attribute to be retrieved **Returns:**The value of the attribute retrieved. **Throws:** [AttributeNotFoundException](http://docs.google.com/javax/management/AttributeNotFoundException.html) [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a java.lang.Exception thrown by the MBean's getter. [ReflectionException](http://docs.google.com/javax/management/ReflectionException.html) - Wraps a java.lang.Exception thrown while trying to invoke the getter.**See Also:**[setAttribute(javax.management.Attribute)](http://docs.google.com/javax/management/DynamicMBean.html#setAttribute(javax.management.Attribute))

### setAttribute

void **setAttribute**([Attribute](http://docs.google.com/javax/management/Attribute.html) attribute)  
 throws [AttributeNotFoundException](http://docs.google.com/javax/management/AttributeNotFoundException.html),  
 [InvalidAttributeValueException](http://docs.google.com/javax/management/InvalidAttributeValueException.html),  
 [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [ReflectionException](http://docs.google.com/javax/management/ReflectionException.html)

Set the value of a specific attribute of the Dynamic MBean.

**Parameters:**attribute - The identification of the attribute to be set and the value it is to be set to. **Throws:** [AttributeNotFoundException](http://docs.google.com/javax/management/AttributeNotFoundException.html) [InvalidAttributeValueException](http://docs.google.com/javax/management/InvalidAttributeValueException.html) [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a java.lang.Exception thrown by the MBean's setter. [ReflectionException](http://docs.google.com/javax/management/ReflectionException.html) - Wraps a java.lang.Exception thrown while trying to invoke the MBean's setter.**See Also:**[getAttribute(java.lang.String)](http://docs.google.com/javax/management/DynamicMBean.html#getAttribute(java.lang.String))

### getAttributes

[AttributeList](http://docs.google.com/javax/management/AttributeList.html) **getAttributes**([String](http://docs.google.com/java/lang/String.html)[] attributes)

Get the values of several attributes of the Dynamic MBean.

**Parameters:**attributes - A list of the attributes to be retrieved. **Returns:**The list of attributes retrieved.**See Also:**[setAttributes(javax.management.AttributeList)](http://docs.google.com/javax/management/DynamicMBean.html#setAttributes(javax.management.AttributeList))

### setAttributes

[AttributeList](http://docs.google.com/javax/management/AttributeList.html) **setAttributes**([AttributeList](http://docs.google.com/javax/management/AttributeList.html) attributes)

Sets the values of several attributes of the Dynamic MBean.

**Parameters:**attributes - A list of attributes: The identification of the attributes to be set and the values they are to be set to. **Returns:**The list of attributes that were set, with their new values.**See Also:**[getAttributes(java.lang.String[])](http://docs.google.com/javax/management/DynamicMBean.html#getAttributes(java.lang.String%5B%5D))

### invoke

[Object](http://docs.google.com/java/lang/Object.html) **invoke**([String](http://docs.google.com/java/lang/String.html) actionName,  
 [Object](http://docs.google.com/java/lang/Object.html)[] params,  
 [String](http://docs.google.com/java/lang/String.html)[] signature)  
 throws [MBeanException](http://docs.google.com/javax/management/MBeanException.html),  
 [ReflectionException](http://docs.google.com/javax/management/ReflectionException.html)

Allows an action to be invoked on the Dynamic MBean.

**Parameters:**actionName - The name of the action to be invoked.params - An array containing the parameters to be set when the action is invoked.signature - An array containing the signature of the action. The class objects will be loaded through the same class loader as the one used for loading the MBean on which the action is invoked. **Returns:**The object returned by the action, which represents the result of invoking the action on the MBean specified. **Throws:** [MBeanException](http://docs.google.com/javax/management/MBeanException.html) - Wraps a java.lang.Exception thrown by the MBean's invoked method. [ReflectionException](http://docs.google.com/javax/management/ReflectionException.html) - Wraps a java.lang.Exception thrown while trying to invoke the method

### getMBeanInfo

[MBeanInfo](http://docs.google.com/javax/management/MBeanInfo.html) **getMBeanInfo**()

Provides the exposed attributes and actions of the Dynamic MBean using an MBeanInfo object.

**Returns:**An instance of MBeanInfo allowing all attributes and actions exposed by this Dynamic MBean to be retrieved.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DynamicMBean.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/DescriptorRead.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/ImmutableDescriptor.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/DynamicMBean.html)    [**NO FRAMES**](http://docs.google.com/DynamicMBean.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| 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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