| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SimpleType.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/OpenType.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/openmbean/TabularData.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/openmbean/SimpleType.html)    [**NO FRAMES**](http://docs.google.com/SimpleType.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#tyjcwt) | DETAIL: [FIELD](#4d34og8) | CONSTR | [METHOD](#1ci93xb) |

## **javax.management.openmbean**

Class SimpleType<T>

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.management.openmbean.OpenType](http://docs.google.com/javax/management/openmbean/OpenType.html)<T>  
 **javax.management.openmbean.SimpleType<T>**

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

public final class **SimpleType<T>**extends [OpenType](http://docs.google.com/javax/management/openmbean/OpenType.html)<T>

The SimpleType class is the *open type* class whose instances describe all *open data* values which are neither arrays, nor [CompositeData](http://docs.google.com/javax/management/openmbean/CompositeData.html) values, nor [TabularData](http://docs.google.com/javax/management/openmbean/TabularData.html) values. It predefines all its possible instances as static fields, and has no public constructor.

Given a SimpleType instance describing values whose Java class name is *className*, the internal fields corresponding to the name and description of this SimpleType instance are also set to *className*. In other words, its methods getClassName, getTypeName and getDescription all return the same string value *className*.

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

| **Field Summary** | |
| --- | --- |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[BigDecimal](http://docs.google.com/java/math/BigDecimal.html)> | [**BIGDECIMAL**](http://docs.google.com/javax/management/openmbean/SimpleType.html#BIGDECIMAL)            The SimpleType instance describing values whose Java class name is java.math.BigDecimal. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[BigInteger](http://docs.google.com/java/math/BigInteger.html)> | [**BIGINTEGER**](http://docs.google.com/javax/management/openmbean/SimpleType.html#BIGINTEGER)            The SimpleType instance describing values whose Java class name is java.math.BigInteger. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Boolean](http://docs.google.com/java/lang/Boolean.html)> | [**BOOLEAN**](http://docs.google.com/javax/management/openmbean/SimpleType.html#BOOLEAN)            The SimpleType instance describing values whose Java class name is java.lang.Boolean. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Byte](http://docs.google.com/java/lang/Byte.html)> | [**BYTE**](http://docs.google.com/javax/management/openmbean/SimpleType.html#BYTE)            The SimpleType instance describing values whose Java class name is java.lang.Byte. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Character](http://docs.google.com/java/lang/Character.html)> | [**CHARACTER**](http://docs.google.com/javax/management/openmbean/SimpleType.html#CHARACTER)            The SimpleType instance describing values whose Java class name is java.lang.Character. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Date](http://docs.google.com/java/util/Date.html)> | [**DATE**](http://docs.google.com/javax/management/openmbean/SimpleType.html#DATE)            The SimpleType instance describing values whose Java class name is java.util.Date. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Double](http://docs.google.com/java/lang/Double.html)> | [**DOUBLE**](http://docs.google.com/javax/management/openmbean/SimpleType.html#DOUBLE)            The SimpleType instance describing values whose Java class name is java.lang.Double. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Float](http://docs.google.com/java/lang/Float.html)> | [**FLOAT**](http://docs.google.com/javax/management/openmbean/SimpleType.html#FLOAT)            The SimpleType instance describing values whose Java class name is java.lang.Float. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Integer](http://docs.google.com/java/lang/Integer.html)> | [**INTEGER**](http://docs.google.com/javax/management/openmbean/SimpleType.html#INTEGER)            The SimpleType instance describing values whose Java class name is java.lang.Integer. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Long](http://docs.google.com/java/lang/Long.html)> | [**LONG**](http://docs.google.com/javax/management/openmbean/SimpleType.html#LONG)            The SimpleType instance describing values whose Java class name is java.lang.Long. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> | [**OBJECTNAME**](http://docs.google.com/javax/management/openmbean/SimpleType.html#OBJECTNAME)            The SimpleType instance describing values whose Java class name is javax.management.ObjectName. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Short](http://docs.google.com/java/lang/Short.html)> | [**SHORT**](http://docs.google.com/javax/management/openmbean/SimpleType.html#SHORT)            The SimpleType instance describing values whose Java class name is java.lang.Short. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[String](http://docs.google.com/java/lang/String.html)> | [**STRING**](http://docs.google.com/javax/management/openmbean/SimpleType.html#STRING)            The SimpleType instance describing values whose Java class name is java.lang.String. |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Void](http://docs.google.com/java/lang/Void.html)> | [**VOID**](http://docs.google.com/javax/management/openmbean/SimpleType.html#VOID)            The SimpleType instance describing values whose Java class name is java.lang.Void. |

| **Fields inherited from class javax.management.openmbean.**[**OpenType**](http://docs.google.com/javax/management/openmbean/OpenType.html) |
| --- |
| [ALLOWED\_CLASSNAMES](http://docs.google.com/javax/management/openmbean/OpenType.html#ALLOWED_CLASSNAMES), [ALLOWED\_CLASSNAMES\_LIST](http://docs.google.com/javax/management/openmbean/OpenType.html#ALLOWED_CLASSNAMES_LIST) |

| **Method Summary** | |
| --- | --- |
| boolean | [**equals**](http://docs.google.com/javax/management/openmbean/SimpleType.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Compares the specified obj parameter with this SimpleType instance for equality. |
| int | [**hashCode**](http://docs.google.com/javax/management/openmbean/SimpleType.html#hashCode())()            Returns the hash code value for this SimpleType instance. |
| boolean | [**isValue**](http://docs.google.com/javax/management/openmbean/SimpleType.html#isValue(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Tests whether obj is a value for this SimpleType instance. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**readResolve**](http://docs.google.com/javax/management/openmbean/SimpleType.html#readResolve())()            Replace an object read from an [ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) with the unique instance for that value. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/management/openmbean/SimpleType.html#toString())()            Returns a string representation of this SimpleType instance. |

| **Methods inherited from class javax.management.openmbean.**[**OpenType**](http://docs.google.com/javax/management/openmbean/OpenType.html) |
| --- |
| [getClassName](http://docs.google.com/javax/management/openmbean/OpenType.html#getClassName()), [getDescription](http://docs.google.com/javax/management/openmbean/OpenType.html#getDescription()), [getTypeName](http://docs.google.com/javax/management/openmbean/OpenType.html#getTypeName()), [isArray](http://docs.google.com/javax/management/openmbean/OpenType.html#isArray()) |

| **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()), [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)) |

| **Field Detail** |
| --- |

### VOID

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Void](http://docs.google.com/java/lang/Void.html)> **VOID**

The SimpleType instance describing values whose Java class name is java.lang.Void.

### BOOLEAN

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Boolean](http://docs.google.com/java/lang/Boolean.html)> **BOOLEAN**

The SimpleType instance describing values whose Java class name is java.lang.Boolean.

### CHARACTER

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Character](http://docs.google.com/java/lang/Character.html)> **CHARACTER**

The SimpleType instance describing values whose Java class name is java.lang.Character.

### BYTE

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Byte](http://docs.google.com/java/lang/Byte.html)> **BYTE**

The SimpleType instance describing values whose Java class name is java.lang.Byte.

### SHORT

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Short](http://docs.google.com/java/lang/Short.html)> **SHORT**

The SimpleType instance describing values whose Java class name is java.lang.Short.

### INTEGER

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Integer](http://docs.google.com/java/lang/Integer.html)> **INTEGER**

The SimpleType instance describing values whose Java class name is java.lang.Integer.

### LONG

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Long](http://docs.google.com/java/lang/Long.html)> **LONG**

The SimpleType instance describing values whose Java class name is java.lang.Long.

### FLOAT

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Float](http://docs.google.com/java/lang/Float.html)> **FLOAT**

The SimpleType instance describing values whose Java class name is java.lang.Float.

### DOUBLE

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Double](http://docs.google.com/java/lang/Double.html)> **DOUBLE**

The SimpleType instance describing values whose Java class name is java.lang.Double.

### STRING

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[String](http://docs.google.com/java/lang/String.html)> **STRING**

The SimpleType instance describing values whose Java class name is java.lang.String.

### BIGDECIMAL

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[BigDecimal](http://docs.google.com/java/math/BigDecimal.html)> **BIGDECIMAL**

The SimpleType instance describing values whose Java class name is java.math.BigDecimal.

### BIGINTEGER

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[BigInteger](http://docs.google.com/java/math/BigInteger.html)> **BIGINTEGER**

The SimpleType instance describing values whose Java class name is java.math.BigInteger.

### DATE

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[Date](http://docs.google.com/java/util/Date.html)> **DATE**

The SimpleType instance describing values whose Java class name is java.util.Date.

### OBJECTNAME

public static final [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> **OBJECTNAME**

The SimpleType instance describing values whose Java class name is javax.management.ObjectName.

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

### isValue

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

Tests whether obj is a value for this SimpleType instance.

This method returns true if and only if obj is not null and obj's class name is the same as the className field defined for this SimpleType instance (ie the class name returned by the [getClassName](http://docs.google.com/javax/management/openmbean/OpenType.html#getClassName()) method).

**Specified by:**[isValue](http://docs.google.com/javax/management/openmbean/OpenType.html#isValue(java.lang.Object)) in class [OpenType](http://docs.google.com/javax/management/openmbean/OpenType.html)<[T](http://docs.google.com/javax/management/openmbean/SimpleType.html)> **Parameters:**obj - the object to be tested. **Returns:**true if obj is a value for this SimpleType instance.

### equals

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

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

Two SimpleType instances are equal if and only if their [getClassName](http://docs.google.com/javax/management/openmbean/OpenType.html#getClassName()) methods return the same value.

**Specified by:**[equals](http://docs.google.com/javax/management/openmbean/OpenType.html#equals(java.lang.Object)) in class [OpenType](http://docs.google.com/javax/management/openmbean/OpenType.html)<[T](http://docs.google.com/javax/management/openmbean/SimpleType.html)> **Parameters:**obj - the object to be compared for equality with this SimpleType instance; if obj is null or is not an instance of the class SimpleType, equals returns false. **Returns:**true if the specified object is equal to this SimpleType 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 SimpleType instance. The hash code of a SimpleType instance is the the hash code of the string value returned by the [getClassName](http://docs.google.com/javax/management/openmbean/OpenType.html#getClassName()) method.

As SimpleType 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/OpenType.html#hashCode()) in class [OpenType](http://docs.google.com/javax/management/openmbean/OpenType.html)<[T](http://docs.google.com/javax/management/openmbean/SimpleType.html)> **Returns:**the hash code value for this SimpleType 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 SimpleType instance.

The string representation consists of the name of this class (ie javax.management.openmbean.SimpleType) and the type name for this instance (which is the java class name of the values this SimpleType instance represents).

As SimpleType 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/OpenType.html#toString()) in class [OpenType](http://docs.google.com/javax/management/openmbean/OpenType.html)<[T](http://docs.google.com/javax/management/openmbean/SimpleType.html)> **Returns:**a string representation of this SimpleType instance

### readResolve

public [Object](http://docs.google.com/java/lang/Object.html) **readResolve**()  
 throws [ObjectStreamException](http://docs.google.com/java/io/ObjectStreamException.html)

Replace an object read from an [ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) with the unique instance for that value.

**Returns:**the replacement object. **Throws:** [ObjectStreamException](http://docs.google.com/java/io/ObjectStreamException.html) - if the read object cannot be resolved.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SimpleType.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/OpenType.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/openmbean/TabularData.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/openmbean/SimpleType.html)    [**NO FRAMES**](http://docs.google.com/SimpleType.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#tyjcwt) | DETAIL: [FIELD](#4d34og8) | CONSTR | [METHOD](#1ci93xb) |

[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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