| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/EnumControl.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/sound/sampled/DataLine.Info.html)   [**NEXT CLASS**](http://docs.google.com/javax/sound/sampled/EnumControl.Type.html) | [**FRAMES**](http://docs.google.com/index.html?javax/sound/sampled/EnumControl.html)    [**NO FRAMES**](http://docs.google.com/EnumControl.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | FIELD | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#17dp8vu) |

## **javax.sound.sampled**

Class EnumControl

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.sound.sampled.Control](http://docs.google.com/javax/sound/sampled/Control.html)  
 **javax.sound.sampled.EnumControl**

public abstract class **EnumControl**extends [Control](http://docs.google.com/javax/sound/sampled/Control.html)

A EnumControl provides control over a set of discrete possible values, each represented by an object. In a graphical user interface, such a control might be represented by a set of buttons, each of which chooses one value or setting. For example, a reverb control might provide several preset reverberation settings, instead of providing continuously adjustable parameters of the sort that would be represented by [FloatControl](http://docs.google.com/javax/sound/sampled/FloatControl.html) objects.

Controls that provide a choice between only two settings can often be implemented instead as a [BooleanControl](http://docs.google.com/javax/sound/sampled/BooleanControl.html), and controls that provide a set of values along some quantifiable dimension might be implemented instead as a FloatControl with a coarse resolution. However, a key feature of EnumControl is that the returned values are arbitrary objects, rather than numerical or boolean values. This means that each returned object can provide further information. As an example, the settings of a [REVERB](http://docs.google.com/javax/sound/sampled/EnumControl.Type.html#REVERB) control are instances of [ReverbType](http://docs.google.com/javax/sound/sampled/ReverbType.html) that can be queried for the parameter values used for each setting.

**Since:** 1.3

| **Nested Class Summary** | |
| --- | --- |
| static class | [**EnumControl.Type**](http://docs.google.com/javax/sound/sampled/EnumControl.Type.html)            An instance of the EnumControl.Type inner class identifies one kind of enumerated control. |

| **Constructor Summary** | |
| --- | --- |
| protected | [**EnumControl**](http://docs.google.com/javax/sound/sampled/EnumControl.html#EnumControl(javax.sound.sampled.EnumControl.Type,%20java.lang.Object%5B%5D,%20java.lang.Object))([EnumControl.Type](http://docs.google.com/javax/sound/sampled/EnumControl.Type.html) type, [Object](http://docs.google.com/java/lang/Object.html)[] values, [Object](http://docs.google.com/java/lang/Object.html) value)            Constructs a new enumerated control object with the given parameters. |

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getValue**](http://docs.google.com/javax/sound/sampled/EnumControl.html#getValue())()            Obtains this control's current value. |
| [Object](http://docs.google.com/java/lang/Object.html)[] | [**getValues**](http://docs.google.com/javax/sound/sampled/EnumControl.html#getValues())()            Returns the set of possible values for this control. |
| void | [**setValue**](http://docs.google.com/javax/sound/sampled/EnumControl.html#setValue(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) value)            Sets the current value for the control. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/sound/sampled/EnumControl.html#toString())()            Provides a string representation of the control. |

| **Methods inherited from class javax.sound.sampled.**[**Control**](http://docs.google.com/javax/sound/sampled/Control.html) |
| --- |
| [getType](http://docs.google.com/javax/sound/sampled/Control.html#getType()) |

| **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()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [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)) |

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

### EnumControl

protected **EnumControl**([EnumControl.Type](http://docs.google.com/javax/sound/sampled/EnumControl.Type.html) type,  
 [Object](http://docs.google.com/java/lang/Object.html)[] values,  
 [Object](http://docs.google.com/java/lang/Object.html) value)

Constructs a new enumerated control object with the given parameters.

**Parameters:**type - the type of control represented this enumerated control objectvalues - the set of possible values for the controlvalue - the initial control value

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

### setValue

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

Sets the current value for the control. The default implementation simply sets the value as indicated. If the value indicated is not supported, an IllegalArgumentException is thrown. Some controls require that their line be open before they can be affected by setting a value.

**Parameters:**value - the desired new value **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the value indicated does not fall within the allowable range

### getValue

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

Obtains this control's current value.

**Returns:**the current value

### getValues

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

Returns the set of possible values for this control.

**Returns:**the set of possible values

### toString

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

Provides a string representation of the control.

**Overrides:**[toString](http://docs.google.com/javax/sound/sampled/Control.html#toString()) in class [Control](http://docs.google.com/javax/sound/sampled/Control.html) **Returns:**a string description

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/EnumControl.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/sound/sampled/DataLine.Info.html)   [**NEXT CLASS**](http://docs.google.com/javax/sound/sampled/EnumControl.Type.html) | [**FRAMES**](http://docs.google.com/index.html?javax/sound/sampled/EnumControl.html)    [**NO FRAMES**](http://docs.google.com/EnumControl.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | FIELD | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#17dp8vu) |

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).