|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | |  |
| [**PREV CLASS**](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html)   [**NEXT CLASS**](http://docs.google.com/javazoom/jl/player/FactoryRegistry.html) | [**FRAMES**](http://docs.google.com/index.html?javazoom/jl/player/AudioDeviceFactory.html)    [**NO FRAMES**](http://docs.google.com/AudioDeviceFactory.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **javazoom.jl.player**

Class AudioDeviceFactory

java.lang.Object  
 **javazoom.jl.player.AudioDeviceFactory**

**Direct Known Subclasses:** [FactoryRegistry](http://docs.google.com/javazoom/jl/player/FactoryRegistry.html), [JavaSoundAudioDeviceFactory](http://docs.google.com/javazoom/jl/player/JavaSoundAudioDeviceFactory.html)

public abstract class **AudioDeviceFactory**extends java.lang.Object

An AudioDeviceFactory class is responsible for creating a specific AudioDevice implementation. A factory implementation can be as simple or complex as desired and may support just one implementation or may return several implementations depending upon the execution environment.

When implementing a factory that provides an AudioDevice that uses class that may not be present, the factory should dynamically link to any specific implementation classes required to instantiate or test the audio implementation. This is so that the application as a whole can run without these classes being present. The audio device implementation, however, will usually statically link to the classes required. (See the JavaSound deivce and factory for an example of this.)

**Since:** 0.0.8 **See Also:**[FactoryRegistry](http://docs.google.com/javazoom/jl/player/FactoryRegistry.html)

|  |  |
| --- | --- |
| **Constructor Summary** | |
| [**AudioDeviceFactory**](http://docs.google.com/javazoom/jl/player/AudioDeviceFactory.html#AudioDeviceFactory())() |

|  |  |
| --- | --- |
| **Method Summary** | |
| abstract  [AudioDevice](http://docs.google.com/javazoom/jl/player/AudioDevice.html) | [**createAudioDevice**](http://docs.google.com/javazoom/jl/player/AudioDeviceFactory.html#createAudioDevice())()            Creates a new AudioDevice. |
| protected  [AudioDevice](http://docs.google.com/javazoom/jl/player/AudioDevice.html) | [**instantiate**](http://docs.google.com/javazoom/jl/player/AudioDeviceFactory.html#instantiate(java.lang.ClassLoader,%20java.lang.String))(java.lang.ClassLoader loader, java.lang.String name)            Creates an instance of an AudioDevice implementation. |

|  |
| --- |
| **Methods inherited from class java.lang.Object** |
| clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait |

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

### AudioDeviceFactory

public **AudioDeviceFactory**()

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

### createAudioDevice

public abstract [AudioDevice](http://docs.google.com/javazoom/jl/player/AudioDevice.html) **createAudioDevice**()  
 throws [JavaLayerException](http://docs.google.com/javazoom/jl/decoder/JavaLayerException.html)

Creates a new AudioDevice.

**Returns:**a new instance of a specific class of AudioDevice. **Throws:** [JavaLayerException](http://docs.google.com/javazoom/jl/decoder/JavaLayerException.html) - if an instance of AudioDevice could not be created.

### instantiate

protected [AudioDevice](http://docs.google.com/javazoom/jl/player/AudioDevice.html) **instantiate**(java.lang.ClassLoader loader,  
 java.lang.String name)  
 throws java.lang.ClassNotFoundException,  
 java.lang.IllegalAccessException,  
 java.lang.InstantiationException

Creates an instance of an AudioDevice implementation.

**Parameters:**loader - The ClassLoader to use to load the named class, or null to use the system class loader.name - The name of the class to load. **Returns:**A newly-created instance of the audio device class. **Throws:** java.lang.ClassNotFoundException java.lang.IllegalAccessException java.lang.InstantiationException

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | |  |
| [**PREV CLASS**](http://docs.google.com/javazoom/jl/player/AudioDeviceBase.html)   [**NEXT CLASS**](http://docs.google.com/javazoom/jl/player/FactoryRegistry.html) | [**FRAMES**](http://docs.google.com/index.html?javazoom/jl/player/AudioDeviceFactory.html)    [**NO FRAMES**](http://docs.google.com/AudioDeviceFactory.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

JavaZOOM 1999-2008