| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/LineEvent.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/Line.Info.html)   [**NEXT CLASS**](http://docs.google.com/javax/sound/sampled/LineEvent.Type.html) | [**FRAMES**](http://docs.google.com/index.html?javax/sound/sampled/LineEvent.html)    [**NO FRAMES**](http://docs.google.com/LineEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#tyjcwt) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: FIELD | [CONSTR](#17dp8vu) | [METHOD](#26in1rg) |

## **javax.sound.sampled**

Class LineEvent

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.util.EventObject](http://docs.google.com/java/util/EventObject.html)  
 **javax.sound.sampled.LineEvent**

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

public class **LineEvent**extends [EventObject](http://docs.google.com/java/util/EventObject.html)

The LineEvent class encapsulates information that a line sends its listeners whenever the line opens, closes, starts, or stops. Each of these four state changes is represented by a corresponding type of event. A listener receives the event as a parameter to its [update](http://docs.google.com/javax/sound/sampled/LineListener.html#update(javax.sound.sampled.LineEvent)) method. By querying the event, the listener can learn the type of event, the line responsible for the event, and how much data the line had processed when the event occurred.

Although this class implements Serializable, attempts to serialize a LineEvent object will fail.

**Since:** 1.3 **See Also:**[Line](http://docs.google.com/javax/sound/sampled/Line.html), [LineListener.update(javax.sound.sampled.LineEvent)](http://docs.google.com/javax/sound/sampled/LineListener.html#update(javax.sound.sampled.LineEvent))

| **Nested Class Summary** | |
| --- | --- |
| static class | [**LineEvent.Type**](http://docs.google.com/javax/sound/sampled/LineEvent.Type.html)            The LineEvent.Type inner class identifies what kind of event occurred on a line. |

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class java.util.**[**EventObject**](http://docs.google.com/java/util/EventObject.html) |
| --- |
| [source](http://docs.google.com/java/util/EventObject.html#source) |

| **Constructor Summary** | |
| --- | --- |
| [**LineEvent**](http://docs.google.com/javax/sound/sampled/LineEvent.html#LineEvent(javax.sound.sampled.Line,%20javax.sound.sampled.LineEvent.Type,%20long))([Line](http://docs.google.com/javax/sound/sampled/Line.html) line, [LineEvent.Type](http://docs.google.com/javax/sound/sampled/LineEvent.Type.html) type, long position)            Constructs a new event of the specified type, originating from the specified line. |

| **Method Summary** | |
| --- | --- |
| long | [**getFramePosition**](http://docs.google.com/javax/sound/sampled/LineEvent.html#getFramePosition())()            Obtains the position in the line's audio data when the event occurred, expressed in sample frames. |
| [Line](http://docs.google.com/javax/sound/sampled/Line.html) | [**getLine**](http://docs.google.com/javax/sound/sampled/LineEvent.html#getLine())()            Obtains the audio line that is the source of this event. |
| [LineEvent.Type](http://docs.google.com/javax/sound/sampled/LineEvent.Type.html) | [**getType**](http://docs.google.com/javax/sound/sampled/LineEvent.html#getType())()            Obtains the event's type. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/sound/sampled/LineEvent.html#toString())()            Obtains a string representation of the event. |

| **Methods inherited from class java.util.**[**EventObject**](http://docs.google.com/java/util/EventObject.html) |
| --- |
| [getSource](http://docs.google.com/java/util/EventObject.html#getSource()) |

| **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** |
| --- |

### LineEvent

public **LineEvent**([Line](http://docs.google.com/javax/sound/sampled/Line.html) line,  
 [LineEvent.Type](http://docs.google.com/javax/sound/sampled/LineEvent.Type.html) type,  
 long position)

Constructs a new event of the specified type, originating from the specified line.

**Parameters:**line - the source of this eventtype - the event type (OPEN, CLOSE, START, or STOP)position - the number of sample frames that the line had already processed when the event occurred, or [AudioSystem.NOT\_SPECIFIED](http://docs.google.com/javax/sound/sampled/AudioSystem.html#NOT_SPECIFIED) **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if line is null.

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

### getLine

public final [Line](http://docs.google.com/javax/sound/sampled/Line.html) **getLine**()

Obtains the audio line that is the source of this event.

**Returns:**the line responsible for this event

### getType

public final [LineEvent.Type](http://docs.google.com/javax/sound/sampled/LineEvent.Type.html) **getType**()

Obtains the event's type.

**Returns:**this event's type ([LineEvent.Type.OPEN](http://docs.google.com/javax/sound/sampled/LineEvent.Type.html#OPEN), [LineEvent.Type.CLOSE](http://docs.google.com/javax/sound/sampled/LineEvent.Type.html#CLOSE), [LineEvent.Type.START](http://docs.google.com/javax/sound/sampled/LineEvent.Type.html#START), or [LineEvent.Type.STOP](http://docs.google.com/javax/sound/sampled/LineEvent.Type.html#STOP))

### getFramePosition

public final long **getFramePosition**()

Obtains the position in the line's audio data when the event occurred, expressed in sample frames. For example, if a source line had already played back 14 sample frames at the time it was paused, the pause event would report the line's position as 14. The next frame to be processed would be frame number 14 using zero-based numbering, or 15 using one-based numbering.

Note that this field is relevant only to certain events generated by data lines, such as START and STOP. For events generated by lines that do not count sample frames, and for any other events for which this value is not known, the position value should be [AudioSystem.NOT\_SPECIFIED](http://docs.google.com/javax/sound/sampled/AudioSystem.html#NOT_SPECIFIED).

**Returns:**the line's position as a sample frame number

### toString

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

Obtains a string representation of the event. The contents of the string may vary between implementations of Java Sound.

**Overrides:**[toString](http://docs.google.com/java/util/EventObject.html#toString()) in class [EventObject](http://docs.google.com/java/util/EventObject.html) **Returns:**a string describing the event.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/LineEvent.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*** |
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[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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