| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/InternalFrameEvent.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/swing/event/InternalFrameAdapter.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/event/InternalFrameListener.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/event/InternalFrameEvent.html)    [**NO FRAMES**](http://docs.google.com/InternalFrameEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#4i7ojhp) | [METHOD](#1ci93xb) |

## **javax.swing.event**

Class InternalFrameEvent

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.util.EventObject](http://docs.google.com/java/util/EventObject.html)  
 [java.awt.AWTEvent](http://docs.google.com/java/awt/AWTEvent.html)  
 **javax.swing.event.InternalFrameEvent**

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

public class **InternalFrameEvent**extends [AWTEvent](http://docs.google.com/java/awt/AWTEvent.html)

An AWTEvent that adds support for JInternalFrame objects as the event source. This class has the same event types as WindowEvent, although different IDs are used. Help on handling internal frame events is in [How to Write an Internal Frame Listener](http://java.sun.com/docs/books/tutorial/uiswing/events/internalframelistener.html), a section in *The Java Tutorial*.

**Warning:** Serialized objects of this class will not be compatible with future Swing releases. The current serialization support is appropriate for short term storage or RMI between applications running the same version of Swing. As of 1.4, support for long term storage of all JavaBeansTM has been added to the java.beans package. Please see [XMLEncoder](http://docs.google.com/java/beans/XMLEncoder.html).

**See Also:**[WindowEvent](http://docs.google.com/java/awt/event/WindowEvent.html), [WindowListener](http://docs.google.com/java/awt/event/WindowListener.html), [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html), [InternalFrameListener](http://docs.google.com/javax/swing/event/InternalFrameListener.html)

| **Field Summary** | |
| --- | --- |
| static int | [**INTERNAL\_FRAME\_ACTIVATED**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#INTERNAL_FRAME_ACTIVATED)            The "window activated" event type. |
| static int | [**INTERNAL\_FRAME\_CLOSED**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#INTERNAL_FRAME_CLOSED)            The "window closed" event. |
| static int | [**INTERNAL\_FRAME\_CLOSING**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#INTERNAL_FRAME_CLOSING)            The "window is closing" event. |
| static int | [**INTERNAL\_FRAME\_DEACTIVATED**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#INTERNAL_FRAME_DEACTIVATED)            The "window deactivated" event type. |
| static int | [**INTERNAL\_FRAME\_DEICONIFIED**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#INTERNAL_FRAME_DEICONIFIED)            The "window deiconified" event type. |
| static int | [**INTERNAL\_FRAME\_FIRST**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#INTERNAL_FRAME_FIRST)            The first number in the range of IDs used for internal frame events. |
| static int | [**INTERNAL\_FRAME\_ICONIFIED**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#INTERNAL_FRAME_ICONIFIED)            The "window iconified" event. |
| static int | [**INTERNAL\_FRAME\_LAST**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#INTERNAL_FRAME_LAST)            The last number in the range of IDs used for internal frame events. |
| static int | [**INTERNAL\_FRAME\_OPENED**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#INTERNAL_FRAME_OPENED)            The "window opened" event. |

| **Fields inherited from class java.awt.**[**AWTEvent**](http://docs.google.com/java/awt/AWTEvent.html) |
| --- |
| [ACTION\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#ACTION_EVENT_MASK), [ADJUSTMENT\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#ADJUSTMENT_EVENT_MASK), [COMPONENT\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#COMPONENT_EVENT_MASK), [consumed](http://docs.google.com/java/awt/AWTEvent.html#consumed), [CONTAINER\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#CONTAINER_EVENT_MASK), [FOCUS\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#FOCUS_EVENT_MASK), [HIERARCHY\_BOUNDS\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#HIERARCHY_BOUNDS_EVENT_MASK), [HIERARCHY\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#HIERARCHY_EVENT_MASK), [id](http://docs.google.com/java/awt/AWTEvent.html#id), [INPUT\_METHOD\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#INPUT_METHOD_EVENT_MASK), [INVOCATION\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#INVOCATION_EVENT_MASK), [ITEM\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#ITEM_EVENT_MASK), [KEY\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#KEY_EVENT_MASK), [MOUSE\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#MOUSE_EVENT_MASK), [MOUSE\_MOTION\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#MOUSE_MOTION_EVENT_MASK), [MOUSE\_WHEEL\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#MOUSE_WHEEL_EVENT_MASK), [PAINT\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#PAINT_EVENT_MASK), [RESERVED\_ID\_MAX](http://docs.google.com/java/awt/AWTEvent.html#RESERVED_ID_MAX), [TEXT\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#TEXT_EVENT_MASK), [WINDOW\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#WINDOW_EVENT_MASK), [WINDOW\_FOCUS\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#WINDOW_FOCUS_EVENT_MASK), [WINDOW\_STATE\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#WINDOW_STATE_EVENT_MASK) |

| **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** | |
| --- | --- |
| [**InternalFrameEvent**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#InternalFrameEvent(javax.swing.JInternalFrame,%20int))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) source, int id)            Constructs an InternalFrameEvent object. |

| **Method Summary** | |
| --- | --- |
| [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) | [**getInternalFrame**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#getInternalFrame())()            Returns the originator of the event. |
| [String](http://docs.google.com/java/lang/String.html) | [**paramString**](http://docs.google.com/javax/swing/event/InternalFrameEvent.html#paramString())()            Returns a parameter string identifying this event. |

| **Methods inherited from class java.awt.**[**AWTEvent**](http://docs.google.com/java/awt/AWTEvent.html) |
| --- |
| [consume](http://docs.google.com/java/awt/AWTEvent.html#consume()), [getID](http://docs.google.com/java/awt/AWTEvent.html#getID()), [isConsumed](http://docs.google.com/java/awt/AWTEvent.html#isConsumed()), [setSource](http://docs.google.com/java/awt/AWTEvent.html#setSource(java.lang.Object)), [toString](http://docs.google.com/java/awt/AWTEvent.html#toString()) |

| **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)) |

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

### INTERNAL\_FRAME\_FIRST

public static final int **INTERNAL\_FRAME\_FIRST**

The first number in the range of IDs used for internal frame events.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.swing.event.InternalFrameEvent.INTERNAL_FRAME_FIRST)

### INTERNAL\_FRAME\_LAST

public static final int **INTERNAL\_FRAME\_LAST**

The last number in the range of IDs used for internal frame events.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.swing.event.InternalFrameEvent.INTERNAL_FRAME_LAST)

### INTERNAL\_FRAME\_OPENED

public static final int **INTERNAL\_FRAME\_OPENED**

The "window opened" event. This event is delivered only the first time the internal frame is made visible.

**See Also:**[JInternalFrame.show()](http://docs.google.com/javax/swing/JInternalFrame.html#show()), [Constant Field Values](http://docs.google.com/constant-values.html#javax.swing.event.InternalFrameEvent.INTERNAL_FRAME_OPENED)

### INTERNAL\_FRAME\_CLOSING

public static final int **INTERNAL\_FRAME\_CLOSING**

The "window is closing" event. This event is delivered when the user attempts to close the internal frame, such as by clicking the internal frame's close button, or when a program attempts to close the internal frame by invoking the setClosed method.

**See Also:**[JInternalFrame.setDefaultCloseOperation(int)](http://docs.google.com/javax/swing/JInternalFrame.html#setDefaultCloseOperation(int)), [JInternalFrame.doDefaultCloseAction()](http://docs.google.com/javax/swing/JInternalFrame.html#doDefaultCloseAction()), [JInternalFrame.setClosed(boolean)](http://docs.google.com/javax/swing/JInternalFrame.html#setClosed(boolean)), [Constant Field Values](http://docs.google.com/constant-values.html#javax.swing.event.InternalFrameEvent.INTERNAL_FRAME_CLOSING)

### INTERNAL\_FRAME\_CLOSED

public static final int **INTERNAL\_FRAME\_CLOSED**

The "window closed" event. This event is delivered after the internal frame has been closed as the result of a call to the setClosed or dispose method.

**See Also:**[JInternalFrame.setClosed(boolean)](http://docs.google.com/javax/swing/JInternalFrame.html#setClosed(boolean)), [JInternalFrame.dispose()](http://docs.google.com/javax/swing/JInternalFrame.html#dispose()), [Constant Field Values](http://docs.google.com/constant-values.html#javax.swing.event.InternalFrameEvent.INTERNAL_FRAME_CLOSED)

### INTERNAL\_FRAME\_ICONIFIED

public static final int **INTERNAL\_FRAME\_ICONIFIED**

The "window iconified" event. This event indicates that the internal frame was shrunk down to a small icon.

**See Also:**[JInternalFrame.setIcon(boolean)](http://docs.google.com/javax/swing/JInternalFrame.html#setIcon(boolean)), [Constant Field Values](http://docs.google.com/constant-values.html#javax.swing.event.InternalFrameEvent.INTERNAL_FRAME_ICONIFIED)

### INTERNAL\_FRAME\_DEICONIFIED

public static final int **INTERNAL\_FRAME\_DEICONIFIED**

The "window deiconified" event type. This event indicates that the internal frame has been restored to its normal size.

**See Also:**[JInternalFrame.setIcon(boolean)](http://docs.google.com/javax/swing/JInternalFrame.html#setIcon(boolean)), [Constant Field Values](http://docs.google.com/constant-values.html#javax.swing.event.InternalFrameEvent.INTERNAL_FRAME_DEICONIFIED)

### INTERNAL\_FRAME\_ACTIVATED

public static final int **INTERNAL\_FRAME\_ACTIVATED**

The "window activated" event type. This event indicates that keystrokes and mouse clicks are directed towards this internal frame.

**See Also:**[JInternalFrame.show()](http://docs.google.com/javax/swing/JInternalFrame.html#show()), [JInternalFrame.setSelected(boolean)](http://docs.google.com/javax/swing/JInternalFrame.html#setSelected(boolean)), [Constant Field Values](http://docs.google.com/constant-values.html#javax.swing.event.InternalFrameEvent.INTERNAL_FRAME_ACTIVATED)

### INTERNAL\_FRAME\_DEACTIVATED

public static final int **INTERNAL\_FRAME\_DEACTIVATED**

The "window deactivated" event type. This event indicates that keystrokes and mouse clicks are no longer directed to the internal frame.

**See Also:**[JInternalFrame.setSelected(boolean)](http://docs.google.com/javax/swing/JInternalFrame.html#setSelected(boolean)), [Constant Field Values](http://docs.google.com/constant-values.html#javax.swing.event.InternalFrameEvent.INTERNAL_FRAME_DEACTIVATED)

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

### InternalFrameEvent

public **InternalFrameEvent**([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) source,  
 int id)

Constructs an InternalFrameEvent object.

**Parameters:**source - the JInternalFrame object that originated the eventid - an integer indicating the type of event

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

### paramString

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

Returns a parameter string identifying this event. This method is useful for event logging and for debugging.

**Overrides:**[paramString](http://docs.google.com/java/awt/AWTEvent.html#paramString()) in class [AWTEvent](http://docs.google.com/java/awt/AWTEvent.html) **Returns:**a string identifying the event and its attributes

### getInternalFrame

public [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) **getInternalFrame**()

Returns the originator of the event.

**Returns:**the JInternalFrame object that originated the event**Since:** 1.3

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/InternalFrameEvent.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/swing/event/InternalFrameAdapter.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/event/InternalFrameListener.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/event/InternalFrameEvent.html)    [**NO FRAMES**](http://docs.google.com/InternalFrameEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#4i7ojhp) | [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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