| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/TableModelEvent.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/TableColumnModelListener.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/event/TableModelListener.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/event/TableModelEvent.html)    [**NO FRAMES**](http://docs.google.com/TableModelEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#3j2qqm3) | [METHOD](#2bn6wsx) |

## **javax.swing.event**

Class TableModelEvent

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

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

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

TableModelEvent is used to notify listeners that a table model has changed. The model event describes changes to a TableModel and all references to rows and columns are in the co-ordinate system of the model. Depending on the parameters used in the constructors, the TableModelevent can be used to specify the following types of changes:

TableModelEvent(source); // The data, ie. all rows changed   
 TableModelEvent(source, HEADER\_ROW); // Structure change, reallocate TableColumns  
 TableModelEvent(source, 1); // Row 1 changed  
 TableModelEvent(source, 3, 6); // Rows 3 to 6 inclusive changed  
 TableModelEvent(source, 2, 2, 6); // Cell at (2, 6) changed  
 TableModelEvent(source, 3, 6, ALL\_COLUMNS, INSERT); // Rows (3, 6) were inserted  
 TableModelEvent(source, 3, 6, ALL\_COLUMNS, DELETE); // Rows (3, 6) were deleted

It is possible to use other combinations of the parameters, not all of them are meaningful. By subclassing, you can add other information, for example: whether the event WILL happen or DID happen. This makes the specification of rows in DELETE events more useful but has not been included in the swing package as the JTable only needs post-event notification.

**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:**[TableModel](http://docs.google.com/javax/swing/table/TableModel.html)

| **Field Summary** | |
| --- | --- |
| static int | [**ALL\_COLUMNS**](http://docs.google.com/javax/swing/event/TableModelEvent.html#ALL_COLUMNS)            Specifies all columns in a row or rows. |
| protected  int | [**column**](http://docs.google.com/javax/swing/event/TableModelEvent.html#column) |
| static int | [**DELETE**](http://docs.google.com/javax/swing/event/TableModelEvent.html#DELETE)            Identifies the removal of rows or columns. |
| protected  int | [**firstRow**](http://docs.google.com/javax/swing/event/TableModelEvent.html#firstRow) |
| static int | [**HEADER\_ROW**](http://docs.google.com/javax/swing/event/TableModelEvent.html#HEADER_ROW)            Identifies the header row. |
| static int | [**INSERT**](http://docs.google.com/javax/swing/event/TableModelEvent.html#INSERT)            Identifies the addtion of new rows or columns. |
| protected  int | [**lastRow**](http://docs.google.com/javax/swing/event/TableModelEvent.html#lastRow) |
| protected  int | [**type**](http://docs.google.com/javax/swing/event/TableModelEvent.html#type) |
| static int | [**UPDATE**](http://docs.google.com/javax/swing/event/TableModelEvent.html#UPDATE)            Identifies a change to existing data. |

| **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** | |
| --- | --- |
| [**TableModelEvent**](http://docs.google.com/javax/swing/event/TableModelEvent.html#TableModelEvent(javax.swing.table.TableModel))([TableModel](http://docs.google.com/javax/swing/table/TableModel.html) source)            All row data in the table has changed, listeners should discard any state that was based on the rows and requery the TableModel to get the new row count and all the appropriate values. |
| [**TableModelEvent**](http://docs.google.com/javax/swing/event/TableModelEvent.html#TableModelEvent(javax.swing.table.TableModel,%20int))([TableModel](http://docs.google.com/javax/swing/table/TableModel.html) source, int row)            This row of data has been updated. |
| [**TableModelEvent**](http://docs.google.com/javax/swing/event/TableModelEvent.html#TableModelEvent(javax.swing.table.TableModel,%20int,%20int))([TableModel](http://docs.google.com/javax/swing/table/TableModel.html) source, int firstRow, int lastRow)            The data in rows [*firstRow*, *lastRow*] have been updated. |
| [**TableModelEvent**](http://docs.google.com/javax/swing/event/TableModelEvent.html#TableModelEvent(javax.swing.table.TableModel,%20int,%20int,%20int))([TableModel](http://docs.google.com/javax/swing/table/TableModel.html) source, int firstRow, int lastRow, int column)            The cells in column *column* in the range [*firstRow*, *lastRow*] have been updated. |
| [**TableModelEvent**](http://docs.google.com/javax/swing/event/TableModelEvent.html#TableModelEvent(javax.swing.table.TableModel,%20int,%20int,%20int,%20int))([TableModel](http://docs.google.com/javax/swing/table/TableModel.html) source, int firstRow, int lastRow, int column, int type)            The cells from (firstRow, column) to (lastRow, column) have been changed. |

| **Method Summary** | |
| --- | --- |
| int | [**getColumn**](http://docs.google.com/javax/swing/event/TableModelEvent.html#getColumn())()            Returns the column for the event. |
| int | [**getFirstRow**](http://docs.google.com/javax/swing/event/TableModelEvent.html#getFirstRow())()            Returns the first row that changed. |
| int | [**getLastRow**](http://docs.google.com/javax/swing/event/TableModelEvent.html#getLastRow())()            Returns the last row that changed. |
| int | [**getType**](http://docs.google.com/javax/swing/event/TableModelEvent.html#getType())()            Returns the type of event - one of: INSERT, UPDATE and DELETE. |

| **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()), [toString](http://docs.google.com/java/util/EventObject.html#toString()) |

| **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** |
| --- |

### INSERT

public static final int **INSERT**

Identifies the addtion of new rows or columns.

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

### UPDATE

public static final int **UPDATE**

Identifies a change to existing data.

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

### DELETE

public static final int **DELETE**

Identifies the removal of rows or columns.

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

### HEADER\_ROW

public static final int **HEADER\_ROW**

Identifies the header row.

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

### ALL\_COLUMNS

public static final int **ALL\_COLUMNS**

Specifies all columns in a row or rows.

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

### type

protected int **type**

### firstRow

protected int **firstRow**

### lastRow

protected int **lastRow**

### column

protected int **column**

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

### TableModelEvent

public **TableModelEvent**([TableModel](http://docs.google.com/javax/swing/table/TableModel.html) source)

All row data in the table has changed, listeners should discard any state that was based on the rows and requery the TableModel to get the new row count and all the appropriate values. The JTable will repaint the entire visible region on receiving this event, querying the model for the cell values that are visible. The structure of the table ie, the column names, types and order have not changed.

### TableModelEvent

public **TableModelEvent**([TableModel](http://docs.google.com/javax/swing/table/TableModel.html) source,  
 int row)

This row of data has been updated. To denote the arrival of a completely new table with a different structure use HEADER\_ROW as the value for the row. When the JTable receives this event and its autoCreateColumnsFromModel flag is set it discards any TableColumns that it had and reallocates default ones in the order they appear in the model. This is the same as calling setModel(TableModel) on the JTable.

### TableModelEvent

public **TableModelEvent**([TableModel](http://docs.google.com/javax/swing/table/TableModel.html) source,  
 int firstRow,  
 int lastRow)

The data in rows [*firstRow*, *lastRow*] have been updated.

### TableModelEvent

public **TableModelEvent**([TableModel](http://docs.google.com/javax/swing/table/TableModel.html) source,  
 int firstRow,  
 int lastRow,  
 int column)

The cells in column *column* in the range [*firstRow*, *lastRow*] have been updated.

### TableModelEvent

public **TableModelEvent**([TableModel](http://docs.google.com/javax/swing/table/TableModel.html) source,  
 int firstRow,  
 int lastRow,  
 int column,  
 int type)

The cells from (firstRow, column) to (lastRow, column) have been changed. The *column* refers to the column index of the cell in the model's co-ordinate system. When *column* is ALL\_COLUMNS, all cells in the specified range of rows are considered changed.

The *type* should be one of: INSERT, UPDATE and DELETE.

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

### getFirstRow

public int **getFirstRow**()

Returns the first row that changed. HEADER\_ROW means the meta data, ie. names, types and order of the columns.

### getLastRow

public int **getLastRow**()

Returns the last row that changed.

### getColumn

public int **getColumn**()

Returns the column for the event. If the return value is ALL\_COLUMNS; it means every column in the specified rows changed.

### getType

public int **getType**()

Returns the type of event - one of: INSERT, UPDATE and DELETE.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/TableModelEvent.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/TableColumnModelListener.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/event/TableModelListener.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/event/TableModelEvent.html)    [**NO FRAMES**](http://docs.google.com/TableModelEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#3j2qqm3) | [METHOD](#2bn6wsx) |

[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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