| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DropTargetDragEvent.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/java/awt/dnd/DropTargetContext.TransferableProxy.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/dnd/DropTargetDropEvent.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/dnd/DropTargetDragEvent.html)    [**NO FRAMES**](http://docs.google.com/DropTargetDragEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: FIELD | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

## **java.awt.dnd**

Class DropTargetDragEvent

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.util.EventObject](http://docs.google.com/java/util/EventObject.html)  
 [java.awt.dnd.DropTargetEvent](http://docs.google.com/java/awt/dnd/DropTargetEvent.html)  
 **java.awt.dnd.DropTargetDragEvent**

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

public class **DropTargetDragEvent**extends [DropTargetEvent](http://docs.google.com/java/awt/dnd/DropTargetEvent.html)

The DropTargetDragEvent is delivered to a DropTargetListener via its dragEnter() and dragOver() methods.

The DropTargetDragEvent reports the *source drop actions* and the *user drop action* that reflect the current state of the drag operation.

*Source drop actions* is a bitwise mask of DnDConstants that represents the set of drop actions supported by the drag source for this drag operation.

*User drop action* depends on the drop actions supported by the drag source and the drop action selected by the user. The user can select a drop action by pressing modifier keys during the drag operation:

Ctrl + Shift -> ACTION\_LINK  
 Ctrl -> ACTION\_COPY  
 Shift -> ACTION\_MOVE

If the user selects a drop action, the *user drop action* is one of DnDConstants that represents the selected drop action if this drop action is supported by the drag source or DnDConstants.ACTION\_NONE if this drop action is not supported by the drag source.

If the user doesn't select a drop action, the set of DnDConstants that represents the set of drop actions supported by the drag source is searched for DnDConstants.ACTION\_MOVE, then for DnDConstants.ACTION\_COPY, then for DnDConstants.ACTION\_LINK and the *user drop action* is the first constant found. If no constant is found the *user drop action* is DnDConstants.ACTION\_NONE.

**Since:** 1.2 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.awt.dnd.DropTargetDragEvent)

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

| **Fields inherited from class java.awt.dnd.**[**DropTargetEvent**](http://docs.google.com/java/awt/dnd/DropTargetEvent.html) |
| --- |
| [context](http://docs.google.com/java/awt/dnd/DropTargetEvent.html#context) |

| **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** | |
| --- | --- |
| [**DropTargetDragEvent**](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html#DropTargetDragEvent(java.awt.dnd.DropTargetContext,%20java.awt.Point,%20int,%20int))([DropTargetContext](http://docs.google.com/java/awt/dnd/DropTargetContext.html) dtc, [Point](http://docs.google.com/java/awt/Point.html) cursorLocn, int dropAction, int srcActions)            Construct a DropTargetDragEvent given the DropTargetContext for this operation, the location of the "Drag" Cursor's hotspot in the Component's coordinates, the user drop action, and the source drop actions. |

| **Method Summary** | |
| --- | --- |
| void | [**acceptDrag**](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html#acceptDrag(int))(int dragOperation)            Accepts the drag. |
| [DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html)[] | [**getCurrentDataFlavors**](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html#getCurrentDataFlavors())()            This method returns the current DataFlavors from the DropTargetContext. |
| [List](http://docs.google.com/java/util/List.html)<[DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html)> | [**getCurrentDataFlavorsAsList**](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html#getCurrentDataFlavorsAsList())()            This method returns the current DataFlavors as a java.util.List |
| int | [**getDropAction**](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html#getDropAction())()            This method returns the user drop action. |
| [Point](http://docs.google.com/java/awt/Point.html) | [**getLocation**](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html#getLocation())()            This method returns a Point indicating the Cursor's current location within the Component's coordinates. |
| int | [**getSourceActions**](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html#getSourceActions())()            This method returns the source drop actions. |
| [Transferable](http://docs.google.com/java/awt/datatransfer/Transferable.html) | [**getTransferable**](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html#getTransferable())()            This method returns the Transferable object that represents the data associated with the current drag operation. |
| boolean | [**isDataFlavorSupported**](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html#isDataFlavorSupported(java.awt.datatransfer.DataFlavor))([DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html) df)            This method returns a boolean indicating if the specified DataFlavor is supported. |
| void | [**rejectDrag**](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html#rejectDrag())()            Rejects the drag as a result of examining either the dropAction or the available DataFlavor types. |

| **Methods inherited from class java.awt.dnd.**[**DropTargetEvent**](http://docs.google.com/java/awt/dnd/DropTargetEvent.html) |
| --- |
| [getDropTargetContext](http://docs.google.com/java/awt/dnd/DropTargetEvent.html#getDropTargetContext()) |

| **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)) |

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

### DropTargetDragEvent

public **DropTargetDragEvent**([DropTargetContext](http://docs.google.com/java/awt/dnd/DropTargetContext.html) dtc,  
 [Point](http://docs.google.com/java/awt/Point.html) cursorLocn,  
 int dropAction,  
 int srcActions)

Construct a DropTargetDragEvent given the DropTargetContext for this operation, the location of the "Drag" Cursor's hotspot in the Component's coordinates, the user drop action, and the source drop actions.

**Parameters:**dtc - The DropTargetContext for this operationcursorLocn - The location of the "Drag" Cursor's hotspot in Component coordinatesdropAction - The user drop actionsrcActions - The source drop actions **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if cursorLocn is null IllegalArgumentException - if dropAction is not one of DnDConstants. IllegalArgumentException - if srcActions is not a bitwise mask of DnDConstants. IllegalArgumentException - if dtc is null.

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

### getLocation

public [Point](http://docs.google.com/java/awt/Point.html) **getLocation**()

This method returns a Point indicating the Cursor's current location within the Component's coordinates.

**Returns:**the current cursor location in Component's coords.

### getCurrentDataFlavors

public [DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html)[] **getCurrentDataFlavors**()

This method returns the current DataFlavors from the DropTargetContext.

**Returns:**current DataFlavors from the DropTargetContext

### getCurrentDataFlavorsAsList

public [List](http://docs.google.com/java/util/List.html)<[DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html)> **getCurrentDataFlavorsAsList**()

This method returns the current DataFlavors as a java.util.List

**Returns:**a java.util.List of the Current DataFlavors

### isDataFlavorSupported

public boolean **isDataFlavorSupported**([DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html) df)

This method returns a boolean indicating if the specified DataFlavor is supported.

**Parameters:**df - the DataFlavor to test

**Returns:**if a particular DataFlavor is supported

### getSourceActions

public int **getSourceActions**()

This method returns the source drop actions.

**Returns:**the source drop actions

### getDropAction

public int **getDropAction**()

This method returns the user drop action.

**Returns:**the user drop action

### getTransferable

public [Transferable](http://docs.google.com/java/awt/datatransfer/Transferable.html) **getTransferable**()

This method returns the Transferable object that represents the data associated with the current drag operation.

**Returns:**the Transferable associated with the drag operation **Throws:** [InvalidDnDOperationException](http://docs.google.com/java/awt/dnd/InvalidDnDOperationException.html) - if the data associated with the drag operation is not available**Since:** 1.5

### acceptDrag

public void **acceptDrag**(int dragOperation)

Accepts the drag. This method should be called from a DropTargetListeners dragEnter, dragOver, and dropActionChanged methods if the implementation wishes to accept an operation from the srcActions other than the one selected by the user as represented by the dropAction.

**Parameters:**dragOperation - the operation accepted by the target

### rejectDrag

public void **rejectDrag**()

Rejects the drag as a result of examining either the dropAction or the available DataFlavor types.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DropTargetDragEvent.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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| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: FIELD | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

[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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