| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DefaultDesktopManager.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/DefaultComboBoxModel.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/DefaultFocusManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/DefaultDesktopManager.html)    [**NO FRAMES**](http://docs.google.com/DefaultDesktopManager.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **javax.swing**

Class DefaultDesktopManager

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.swing.DefaultDesktopManager**

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

public class **DefaultDesktopManager**extends [Object](http://docs.google.com/java/lang/Object.html)implements [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html), [Serializable](http://docs.google.com/java/io/Serializable.html)

This is an implementation of the DesktopManager. It currently implements the basic behaviors for managing JInternalFrames in an arbitrary parent. JInternalFrames that are not children of a JDesktop will use this component to handle their desktop-like actions.

This class provides a policy for the various JInternalFrame methods, it is not meant to be called directly rather the various JInternalFrame methods will call into the DesktopManager.

**See Also:**[JDesktopPane](http://docs.google.com/javax/swing/JDesktopPane.html), [JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html)

| **Constructor Summary** | |
| --- | --- |
| [**DefaultDesktopManager**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#DefaultDesktopManager())() |

| **Method Summary** | |
| --- | --- |
| void | [**activateFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#activateFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            This will activate **f** moving it to the front. |
| void | [**beginDraggingFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#beginDraggingFrame(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) f)            This method is normally called when the user has indicated that they will begin dragging a component around. |
| void | [**beginResizingFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#beginResizingFrame(javax.swing.JComponent,%20int))([JComponent](http://docs.google.com/javax/swing/JComponent.html) f, int direction)            This methods is normally called when the user has indicated that they will begin resizing the frame. |
| void | [**closeFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#closeFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Removes the frame, and, if necessary, the desktopIcon, from its parent. |
| void | [**deactivateFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#deactivateFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Generally, indicate that this frame has lost focus. |
| void | [**deiconifyFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#deiconifyFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Removes the desktopIcon from its parent and adds its frame to the parent. |
| void | [**dragFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#dragFrame(javax.swing.JComponent,%20int,%20int))([JComponent](http://docs.google.com/javax/swing/JComponent.html) f, int newX, int newY)            Moves the visible location of the frame being dragged to the location specified. |
| void | [**endDraggingFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#endDraggingFrame(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) f)            This method signals the end of the dragging session. |
| void | [**endResizingFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#endResizingFrame(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) f)            This method signals the end of the resize session. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | [**getBoundsForIconOf**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#getBoundsForIconOf(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            The iconifyFrame() code calls this to determine the proper bounds for the desktopIcon. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | [**getPreviousBounds**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#getPreviousBounds(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Gets the normal bounds of the component prior to the component being maximized. |
| void | [**iconifyFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#iconifyFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Removes the frame from its parent and adds its desktopIcon to the parent. |
| void | [**maximizeFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#maximizeFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Resizes the frame to fill its parents bounds. |
| void | [**minimizeFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#minimizeFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Restores the frame back to its size and position prior to a maximizeFrame call. |
| void | [**openFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#openFrame(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Normally this method will not be called. |
| protected  void | [**removeIconFor**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#removeIconFor(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Convenience method to remove the desktopIcon of **f** is necessary. |
| void | [**resizeFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#resizeFrame(javax.swing.JComponent,%20int,%20int,%20int,%20int))([JComponent](http://docs.google.com/javax/swing/JComponent.html) f, int newX, int newY, int newWidth, int newHeight)            Calls setBoundsForFrame with the new values. |
| void | [**setBoundsForFrame**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#setBoundsForFrame(javax.swing.JComponent,%20int,%20int,%20int,%20int))([JComponent](http://docs.google.com/javax/swing/JComponent.html) f, int newX, int newY, int newWidth, int newHeight)            This moves the JComponent and repaints the damaged areas. |
| protected  void | [**setPreviousBounds**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#setPreviousBounds(javax.swing.JInternalFrame,%20java.awt.Rectangle))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Stores the bounds of the component just before a maximize call. |
| protected  void | [**setWasIcon**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#setWasIcon(javax.swing.JInternalFrame,%20java.lang.Boolean))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f, [Boolean](http://docs.google.com/java/lang/Boolean.html) value)            Sets that the component has been iconized and the bounds of the desktopIcon are valid. |
| protected  boolean | [**wasIcon**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#wasIcon(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Returns true if the component has been iconized and the bounds of the desktopIcon are valid, otherwise returns false. |

| **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()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [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** |
| --- |

### DefaultDesktopManager

public **DefaultDesktopManager**()

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

### openFrame

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

Normally this method will not be called. If it is, it try to determine the appropriate parent from the desktopIcon of the frame. Will remove the desktopIcon from its parent if it successfully adds the frame.

**Specified by:**[openFrame](http://docs.google.com/javax/swing/DesktopManager.html#openFrame(javax.swing.JInternalFrame)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html)

### closeFrame

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

Removes the frame, and, if necessary, the desktopIcon, from its parent.

**Specified by:**[closeFrame](http://docs.google.com/javax/swing/DesktopManager.html#closeFrame(javax.swing.JInternalFrame)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html) **Parameters:**f - the JInternalFrame to be removed

### maximizeFrame

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

Resizes the frame to fill its parents bounds.

**Specified by:**[maximizeFrame](http://docs.google.com/javax/swing/DesktopManager.html#maximizeFrame(javax.swing.JInternalFrame)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html) **Parameters:**f - the frame to be resized

### minimizeFrame

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

Restores the frame back to its size and position prior to a maximizeFrame call.

**Specified by:**[minimizeFrame](http://docs.google.com/javax/swing/DesktopManager.html#minimizeFrame(javax.swing.JInternalFrame)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html) **Parameters:**f - the JInternalFrame to be restored

### iconifyFrame

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

Removes the frame from its parent and adds its desktopIcon to the parent.

**Specified by:**[iconifyFrame](http://docs.google.com/javax/swing/DesktopManager.html#iconifyFrame(javax.swing.JInternalFrame)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html) **Parameters:**f - the JInternalFrame to be iconified

### deiconifyFrame

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

Removes the desktopIcon from its parent and adds its frame to the parent.

**Specified by:**[deiconifyFrame](http://docs.google.com/javax/swing/DesktopManager.html#deiconifyFrame(javax.swing.JInternalFrame)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html) **Parameters:**f - the JInternalFrame to be de-iconified

### activateFrame

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

This will activate **f** moving it to the front. It will set the current active frame's (if any) IS\_SELECTED\_PROPERTY to false. There can be only one active frame across all Layers.

**Specified by:**[activateFrame](http://docs.google.com/javax/swing/DesktopManager.html#activateFrame(javax.swing.JInternalFrame)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html) **Parameters:**f - the JInternalFrame to be activated

### deactivateFrame

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

**Description copied from interface:** [**DesktopManager**](http://docs.google.com/javax/swing/DesktopManager.html#deactivateFrame(javax.swing.JInternalFrame)) Generally, indicate that this frame has lost focus. This is usually called after the JInternalFrame's IS\_SELECTED\_PROPERTY has been set to false.

**Specified by:**[deactivateFrame](http://docs.google.com/javax/swing/DesktopManager.html#deactivateFrame(javax.swing.JInternalFrame)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html)

### beginDraggingFrame

public void **beginDraggingFrame**([JComponent](http://docs.google.com/javax/swing/JComponent.html) f)

**Description copied from interface:** [**DesktopManager**](http://docs.google.com/javax/swing/DesktopManager.html#beginDraggingFrame(javax.swing.JComponent)) This method is normally called when the user has indicated that they will begin dragging a component around. This method should be called prior to any dragFrame() calls to allow the DesktopManager to prepare any necessary state. Normally **f** will be a JInternalFrame.

**Specified by:**[beginDraggingFrame](http://docs.google.com/javax/swing/DesktopManager.html#beginDraggingFrame(javax.swing.JComponent)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html)

### dragFrame

public void **dragFrame**([JComponent](http://docs.google.com/javax/swing/JComponent.html) f,  
 int newX,  
 int newY)

Moves the visible location of the frame being dragged to the location specified. The means by which this occurs can vary depending on the dragging algorithm being used. The actual logical location of the frame might not change until endDraggingFrame is called.

**Specified by:**[dragFrame](http://docs.google.com/javax/swing/DesktopManager.html#dragFrame(javax.swing.JComponent,%20int,%20int)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html)

### endDraggingFrame

public void **endDraggingFrame**([JComponent](http://docs.google.com/javax/swing/JComponent.html) f)

**Description copied from interface:** [**DesktopManager**](http://docs.google.com/javax/swing/DesktopManager.html#endDraggingFrame(javax.swing.JComponent)) This method signals the end of the dragging session. Any state maintained by the DesktopManager can be removed here. Normally **f** will be a JInternalFrame.

**Specified by:**[endDraggingFrame](http://docs.google.com/javax/swing/DesktopManager.html#endDraggingFrame(javax.swing.JComponent)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html)

### beginResizingFrame

public void **beginResizingFrame**([JComponent](http://docs.google.com/javax/swing/JComponent.html) f,  
 int direction)

**Description copied from interface:** [**DesktopManager**](http://docs.google.com/javax/swing/DesktopManager.html#beginResizingFrame(javax.swing.JComponent,%20int)) This methods is normally called when the user has indicated that they will begin resizing the frame. This method should be called prior to any resizeFrame() calls to allow the DesktopManager to prepare any necessary state. Normally **f** will be a JInternalFrame.

**Specified by:**[beginResizingFrame](http://docs.google.com/javax/swing/DesktopManager.html#beginResizingFrame(javax.swing.JComponent,%20int)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html)

### resizeFrame

public void **resizeFrame**([JComponent](http://docs.google.com/javax/swing/JComponent.html) f,  
 int newX,  
 int newY,  
 int newWidth,  
 int newHeight)

Calls setBoundsForFrame with the new values.

**Specified by:**[resizeFrame](http://docs.google.com/javax/swing/DesktopManager.html#resizeFrame(javax.swing.JComponent,%20int,%20int,%20int,%20int)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html) **Parameters:**f - the component to be resizednewX - the new x-coordinatenewY - the new y-coordinatenewWidth - the new widthnewHeight - the new height

### endResizingFrame

public void **endResizingFrame**([JComponent](http://docs.google.com/javax/swing/JComponent.html) f)

**Description copied from interface:** [**DesktopManager**](http://docs.google.com/javax/swing/DesktopManager.html#endResizingFrame(javax.swing.JComponent)) This method signals the end of the resize session. Any state maintained by the DesktopManager can be removed here. Normally **f** will be a JInternalFrame.

**Specified by:**[endResizingFrame](http://docs.google.com/javax/swing/DesktopManager.html#endResizingFrame(javax.swing.JComponent)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html)

### setBoundsForFrame

public void **setBoundsForFrame**([JComponent](http://docs.google.com/javax/swing/JComponent.html) f,  
 int newX,  
 int newY,  
 int newWidth,  
 int newHeight)

This moves the JComponent and repaints the damaged areas.

**Specified by:**[setBoundsForFrame](http://docs.google.com/javax/swing/DesktopManager.html#setBoundsForFrame(javax.swing.JComponent,%20int,%20int,%20int,%20int)) in interface [DesktopManager](http://docs.google.com/javax/swing/DesktopManager.html)

### removeIconFor

protected void **removeIconFor**([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)

Convenience method to remove the desktopIcon of **f** is necessary.

### getBoundsForIconOf

protected [Rectangle](http://docs.google.com/java/awt/Rectangle.html) **getBoundsForIconOf**([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)

The iconifyFrame() code calls this to determine the proper bounds for the desktopIcon.

### setPreviousBounds

protected void **setPreviousBounds**([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f,  
 [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)

Stores the bounds of the component just before a maximize call.

**Parameters:**f - the component about to be resizedr - the normal bounds to be saved away

### getPreviousBounds

protected [Rectangle](http://docs.google.com/java/awt/Rectangle.html) **getPreviousBounds**([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)

Gets the normal bounds of the component prior to the component being maximized.

**Parameters:**f - the JInternalFrame of interest **Returns:**the normal bounds of the component

### setWasIcon

protected void **setWasIcon**([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f,  
 [Boolean](http://docs.google.com/java/lang/Boolean.html) value)

Sets that the component has been iconized and the bounds of the desktopIcon are valid.

### wasIcon

protected boolean **wasIcon**([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)

Returns true if the component has been iconized and the bounds of the desktopIcon are valid, otherwise returns false.

**Parameters:**f - the JInternalFrame of interest **Returns:**true if the component has been iconized; otherwise returns false

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DefaultDesktopManager.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/DefaultComboBoxModel.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/DefaultFocusManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/DefaultDesktopManager.html)    [**NO FRAMES**](http://docs.google.com/DefaultDesktopManager.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[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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