# Docking Frames 1.0.6 - Transition

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#### Abstract

This document describes the most important changes between versions, and how developers should change their application in order to use new features. This document does not make any distinction between the core-library and the common-project. Not all changes are listed up in this document, only those enhancments which might be interesting for the majority of developers.

# 1 Version 1.0.3

Version 1.0.3 emphasizes on background enhancments. The API remains unchanged for most parts.

# 1.1 Incompatibilities

These changes break with the API from 1.0.2, clients must change their interfaces in order to work properly.

### 1.1.1 DefaultKeyboardController

Short The class DefaultkeyBoardController has been renamed to DefaultKeyboardController

**Reason** The new name looks better

Clients Replace any occurrence of DefaultkeyBoardController to DefaultKeyboardController

### 1.1.2 DefaultDockable/DefaultCDockable

Short DefaultDockable and DefaultCDockable now have BorderLayout set as default LayoutManager

Reason BorderLayout is the most often used LayoutManager.

Clients If another LayoutManager than BorderLayout is needed, set it up.

### 1.1.3 CDockableListener

Short CDockableListener divided into CDockableStateListener and CDockablePropertyListener

Reason CDockableListener was to big. Most clients either need information about the state, or about the properties of a CDockable. The case that both informations are needed is seldom.

Clients Need to decide which listener they implement. Note that CDockableAdapter implements both listeners, but not all methods get invoked when the adapter is registered only as one kind of listener.

### 1.1.4 FlapDockStation

Short FlapDockStations layout is stored in a new format. The xml format will do the transition automatically, but the DataInput/OutputStream will not work properly.

Reason the old format did not carry enough information

Clients Store the layout in xml-format and load it again to do the transition.

#### 1.1.5 XML

Short XElement now extends

XContainer, and no longer XAttribute. XAttribute extends XContainer as well

**Reason** An element of a xml file is not an attribute, that is now reflected in the class structure

Clients May need to replace some occurrences of XAttribute by XContainer

#### 1.1.6 DockTheme

**Short** The common-project uses its own set of **DockThemes**. Each theme **XTheme** gets replaced by **CXTheme** 

Reason The new themes make use of the new ColorMap

Clients Should use the new themes when possible. The old themes will work, but the user will see less features.

# 1.1.7 DockFactory

Short DockFactories can now create any Object they want, and are no longer required to create DockLayouts. DockLayout has been converted into a class that wraps the Object that was created by a DockFactory

Reason All DockLayouts need to do the same things, hence clients would need to write the same code over and over again. Clients have now more freedom in how to implement DockFactory

Clients Should remove all occurrences of implements DockLayout and the methods set/getFactoryId that were defined in DockLayout

#### 1.2 Features

This is the set of new features.

### 1.2.1 SplitDockStation

**Short** The tree of elements of a SplitDockStation is now accessible from outside and can be modified directly

**Reason** It is more intuitive to work directly with the tree, some new algorithms work on the tree and are easier to implement that way.

#### 1.2.2 SplitLayoutManager

Short New SplitLayoutManager calculates where to drop, and how to divide, elements of a SplitDockStation

**Reason** New features, like the locked size of CDockable, were only possible if the behavior of a SplitDockStation can be changed on runtime.

### 1.2.3 CDockable resize lock

**Short** The size of a CDockable can be locked during resize of its parent. See setResizeLocked, a method of AbstractCDockable.

Reason This was a request from a user

### 1.2.4 FlapLayoutManager

Short FlapDockStation now uses FlapLayoutManager to arrange its children

**Reason** Exchangeable behavior was a requirement for new features in the common-project.

### 1.2.5 ColorManager/ColorScheme

Short Many graphical elements now use ColorManager and ColorSchemes

**Reason** Colors can now be exchanged by clients. The control goes deep, even the color of a single element can be exchanged without affecting other elements of the same kind.

### 1.2.6 ColorMap

Short CDockable uses a ColorMap to define special colors for tabs and titles that are related to the CDockable

Reason This was a request from a user

#### 1.2.7 LookAndFeel

Short Changes of LookAndFeel noted by DockController and forwarded to all UIListeners.

Reason Because the ColorManager would not be informed of the new LookAndFeel otherwise

### 1.2.8 CDockable resize request

Short CDockables can now request a size they would like to have, and in most environments they will get this size. See the method setResizeRequest of AbstractCDockable.

Reason This was a request from a user

# 2 Version 1.0.4

Version 1.0.4 introduces a few new features that add customizability

# 2.1 Incompatibilities

These changes break with the API from 1.0.3, clients must change their interfaces in order to work properly.

# 2.1.1 Binary file format

Short The binary file format has been changed

**Reason** The format now includes version numbers so that backwards compatibility should be possible in the next versions

Clients Need to delete all binary files. They might try to write their properties with the old version in xml, and then load the xml file with the new version. This should convert the files.

#### 2.1.2 DockableListener

Short Has an additional method titleExchanged

Reason Allows to exchange a DockTitle while the Dockable is visible

Clients Need to update any class that implements DockableListener.

# 2.1.3 Title visibility on CDockables

Short Any CDockable can now hide its titles at any time

Reason user request

Clients Need to update any class implementing CDockablePropertyListener since that listener has an additional method titleShownChanged.

### 2.1.4 BasicDropDownButtonHandler

**Short** Requests now a BasicDropDownButtonTrigger instead of a BasicTrigger

**Reason** to allow steering any drop down action with the keyboard.

Clients unlikly to have an effect on any client

# ${\bf 2.1.5}\quad {\bf CDockable.getClose}$

Short Method has been moved into CommonDockable

Reason The action can now be replaced through CDockable.getAction.

There is no need for any client to replace the action by replacing the whole DockActionSource

Clients should use putAction, a method of AbstractCDockable to exchange the close-action. No fix for clients which added additional elements to the close-source.

#### 2.1.6 CLocation

Short Additional CLocations, some methods have been moved

Reason To allow the new CStation more flexible CLocations were needed.

Clients No general solution available, clients should recompile their project and check all compiler errors.

### 2.1.7 working area

Short Every CStation can now be a working area

Reason To allow more flexibility in grouping CDockables

Clients That should not be visible for any client using version 1.0.3

### 2.2 Features

This is the set of new features.

### 2.2.1 Border around BubbleDisplayer

**Short** BubbleDisplayer now shows a border if the title is not null, or if the dockable is not a station

Reason Looks better

### 2.2.2 Backup factories (core)

Short DockFrontend and PredefinedDockSituation can now use backup factories. These factories are used to load elements which should be in the cache, but are missing. In case of DockFrontend they are automatically added to the frontend.

Reason Removes the need to add all Dockables to a DockFrontend before loading a layout from a file.

# 2.2.3 Backup factories (common)

Short CControl now supports lazy initialisation of SingleCDockables through the SingleCDockableBackupFactory.

Reason saves memory

# 2.2.4 Unregister factories from DockFrontend

Short DockFactorys can now be unregistered from DockFrontend

Reason Was missing

# 2.2.5 Action support keyboard

Short DockActions are triggered by pressing SPACE on the focused button, DropDownActions pop up when the DOWN (non numpad) key is pressed

Reason Ongoing work to allow navigating in DF without the mouse.

#### 2.2.6 FocusTraversalPolicies

Short New FocusTraversalPolicys allow to navigate within all elements of a DockableDisplayer (including title).

Reason Ongoing work to allow navigating in DF without the mouse.

### 2.2.7 override predefined actions

Short CDockable has an additional method getAction which is used by various modules to override their default actions.

Reason Answer to a user request

#### 2.2.8 CBlank

Short New action CBlank, which does not show anything.

Reason As value for CDockable.getAction when a predefined action should be hidden

# 2.2.9 CStation

**Short** Additional interface CStation in common. Two new stations: CMinimizeArea and CGridArea.

Reason Allows clients to add their own DockStations to CControl, allows to create other layouts than the "one center, four minimize areas"-layout.

### 2.3 Bugfixes

These are the bugs that were fixed/

# 2.3.1 BubbleDisplayer.getDockableInsets

Short The method did not calculate its result correctly.

Reason A flaw in the design of BasicDockableDisplayer

# ${\bf 2.3.2} \quad {\bf IndexOutOfBoundsException\ from\ ButtonPanel}$

Short The exception was thrown when an invisible action was on the panel

Reason invisible actions were not considered when writing ButtonPanel

# 2.3.3 Mode change of CDockable

Short CDockable did not go into normalized-mode when externalized and never normalized before

**Reason** Properties were missing and could not be created automatically

### 2.3.4 Opening maximized CDockable

Short CDockable could not be opened maximized.

Reason framework got confused because CDockable did not have a parent.

#### 2.3.5 Unbind of DockAction called to often

Short A DockAction could throw an exception "unbind called to often"

Reason When a DockAction was a child of a MenuMenuHandler, its unbind method was called even if the action was not displayed. However the bind action was called only if the action was displayed, so the internal counter was no longer correct. Every time a menu with such an action was shown, the counter was decremented by one. When it reached a value below 0, an exception was thrown. Since an action could be bound by many elements, the exception occurred at random places.

# 3 Version 1.0.5

Version 1.0.5 brings the possibility to navigate around only by hitting some keys on the keyboard. When clicking the ctrl+shift+e combination, a dialog opens on which a Dockable can be selected.

DockActions in button form can be activated with space, and the dropdown actions menu can be opened with the arrow down key.

This release contains some tricky incompatibilities which need to be handled very carefully.

### 3.1 Incombatibilities

The changes that need special care.

# 3.1.1 DockStationListener

Short The method dockableSelected of DockStationListener has an additional parameter that indicates which element was selected before the change.

**Reason** No need for listeners to store the old values.

Clients Must carefully update all classes and interfaces that implement DockStationListener. Be especially careful not to mix up the new arguments with the old ones.

#### 3.1.2 DockableFocusListener

Short The DockableFocusListener has been divided into two interfaces:

DockableFocusListener and DockableSelectionListener. The
remaining method in DockableFocusListener now takes a
DockableFocusEvent and no longer directly the involved elements. The
class DockableFocusAdapter has been deleted.

Reason Events allow further changes of the system without change of the DockableFocusListener itself. Since every client needs to update its methods anyway, DockableFocusAdapter could be deleted.

Clients Should use DockableFocusListener instead of DockableFocusAdapter.

### 3.1.3 DockTheme.getDockableSelection

Short DockTheme has an additional method getDockableSelection.

Reason A DockableSelection is needed to change the focused Dockable using only the keyboard. Since DockableSelection is a graphical element, it has to be handled by the DockTheme.

Clients Should implement the missing method in their DockThemes. Using DefaultDockableSelection is an easy solution.

### 3.1.4 tap-strip no longer painted by TapPainter

Short TabPainter does no longer paint the tab-strip directly. It now creates a TabStripPainter that paints the strip.

Reason The new object can work with the color map.

Clients Have to provide a TabStripPainter as well.

# 3.1.5 KeyboardController does fire less events

Short The KeyboardController does no longer fire events when it could not find the source-Dockable of the event. As a result the KeyboardListener does no longer receive null as argument of any of its methods.

**Reason** Events were fired which had nothing to do with the framework at all.

Clients If they need all key events, then they can add a global KeyListener to KeyboardController using the method addGlobalListener.

# 3.1.6 ComponentHierarchyObserver

Short The ComponentHierarchyObserver includes more Components in its search. The ComponentHierarchyObserverListener now works with an event and does no longer receive all the elements as arguments.

Reason Allows more features to work correctly in restricted environments.

**Clients** Need to be aware that not every **Component** that is found by the observer is a child of a **Dockable**.

# 3.2 API and Layout

A list of new API elements and changes that affect the layout.

### 3.2.1 KeyStroke for closing Dockable

Short The KeyStroke for closing a CDockable or Dockable has been changed from ctrl+c to ctrl+F4.

Reason Andrew pointed out, that ctrl+c is already used by many applications...

#### 3.2.2 New listeners

Short There are new listeners, CFocusListener, CKeyboardListener and CDoubleClickListener, which can be added to CDockable or to CControl if all CDockables should be monitored.

**Reason** Might be helpful for some applications

#### 3.2.3 ComponentHierarchObserver

Short Clients can now add and remove Components from the ComponentHierarchyObserver. The observer also includes DockTitles in its search for Components.

Reason Might become necessary for complex applications that run in a restricted environment.

### 3.2.4 Root window for DockController

Short The DockController can now find the root window of the application. The window can also be set directly using setRootWindow. If so, then the root window is added to the ComponentHierarchyObserver.

Reason Necessary to show small dialogs like the new DockableSelector

# 3.2.5 FocusTraversalPolicies

Short All DockThemes now support FocusTraversalPolicies. Now each DockAction and all Components of a Dockable can be reached by using only the keyboard.

Reason A nice feature for people which do not like the mouse

### 3.2.6 Dialog to select focused Dockable

Short The DockableSelector and DockableSelection allow users to select the focused Dockable using only the keyboard. The feature is activated as soon as ctrl+shift+e is pressed.

Reason A nice feature for people which do not like the mouse

### 3.2.7 Extracting colors from LookAndFeel

Short The mechanism to read colors from LookAndFeels has been upgraded. Each LookAndFeel can now have its own specialized LookAndFeelColors that reads the colors.

**Reason** Allows to be more flexible with colors, allows the correct use of Nimbus and Windows.

# 3.2.8 EclipseTheme

Short EclipseTheme uses more colors from the LookAndFeel

Reason looks better

### 3.2.9 SplitDockStation

**Short** When dropping an element onto a SplitDockStation, the elements that are put aside receive at least a quarter of their original size.

Reason Sometimes the old elements shrunk too mutch.

# 3.3 Bugfixes

# 3.3.1 Missing colors for BasicTheme

Short BasicTheme did not update colors for the keys paint.line, paint. divider and paint.division. As a result some painting was not as in the older versions.

### 3.3.2 Cutting bounds of children of SplitDockStation

**Short** The bounds of children of SplitDockStation are now cut such that they are always within the stations boundaries.

**Reason** Rounding errors sometimes lead to little failures that made a single line of pixels invisible.

#### 3.3.3 NullPointerException when changing focus

Short A NullPointerException could been thrown when the focus changed.

# 3.3.4 Undecorated dialogs not undecorated

Short When using LookAndFeels that can draw window decorations on their own (like JTattoo), then FlapWindow, ScreenDockDialog and others could have decorations.

Reason The flag that advices the LookAndFeel not to paint a decoration was not set in the JRootPanes of these windows.

### 3.3.5 RexTabbedComponent not adding/removing children

Short RexTabbedComponent does no longer add and remove its children to change their visibility, it now uses a CardLayout.

Reason Some Components did miss the change of the LookAndFeel when they were a child of RexTabbedComponent.

### 3.3.6 Focusing a hidden CDockable

**Short** When focusing a normalized CDockable that was hidden behind a maximized CDockable, then the focused dockable did not became visible.

**Reason** An old security system prevents change of the maximized element by the focus system.

### 3.3.7 Missing events when changing state of CDockable

**Short** When the ExtendedMode of a CDockable did not change because of a call of a special method, no state-change-events were fired.

Reason It was not intended that one action could change the state of many CDockables.

# 4 Version 1.0.6

This version brings the preference system. The API was changed at some places in order to bring the preference system to work.

# 4.1 Incombatibilities

The changes that need special care.

### 4.1.1 Dockable with Tooltip

Short Dockable has a new method getTitleToolTip. DockableListener has a new method titleToolTipChanged.

Reason Allows to show a tooltip for a Dockable on titles and on tabs.

Clients Must implement the two new methods.

### 4.1.2 ColorManager generalized

Short ColorManager extends UIProperties, ColorProvider extends
UIBridge and has been declared deprecated, DockColor extends UIValue.
ColorManager.getProviderFor is replaced by
UIProperties.getBridgeFor.

**Reason** This generalization will allow to use the UIProperties for other things than just colors. There are plans to use the same system for fonts as well.

Clients Should replace ColorProvider by UIBridge

### 4.1.3 Resize Request in Common

Short Size requests are now handled by RequestDimension and no longer with Dimension.

**Reason** Allows to issue requests only for with or for height.

Clients Have to replace occurences of Dimension by RequestDimension.

### 4.1.4 DockElementRepresentative

Short Dockable and DockTitle implement the interface DockElementRepresentative

Reason Allows unified access to all Components which are linked to a Dockable.

Clients Have to implement the additional methods of DockElementRepresentative

#### 4.1.5 SimpleModifierMask deleted

Short The class SimpleModifierMask has been removed. The interface ModifierMask has been changed to be a class effectivly replacing SimpleModifierMask.

**Reason** This was necessary for the preference system. It was also unlikely that a client would ever implement ModifierMask.

Clients Must replace SimpleModifierMask by ModifierMask.

### 4.1.6 Map of DockThemes

Short CControl has now a ThemeMap. This map contains String-ThemeFactory pairs. A new theme can be activated by calling ThemeMap..select.

**Reason** This is a simple representation of all the choices a user can do. The CThemeMenuPiece and the preference system can use the map to show choices and selection.

Clients Instead of using CControl.setTheme( DockTheme ) they should use CControl.setTheme( String ). Additinal ThemeFactorys have to be added directly to the ThemeMap, CThemeMenuPiece does no longer support inserting factories.

### 4.1.7 Persistent storage of DockTheme

**Short** The DockTheme of a CControl is no longer stored by the CThemeMenuPiece but directly by its ThemeMap.

Reason The ThemeMap is always present, the CThemeMenuPiece not. Hence if the ThemeMap is responsible for storing the theme, then the theme gets always stored.

Clients Cannot do anything. The setting of the theme will be lost the next time the application starts and has to be set anew.

# 4.2 API and Layout

A list of new API elements and changes that affect the layout.

### 4.2.1 Dropping onto SplitDockStation

Short When dropping something onto a SplitDockStation, the old content always gets at least 25% of the remaining space.

Reason In some situations the old content get no space and became invisible.

## 4.2.2 UIProperties

Short New UIProperties, a generalisation of ColorManager.

Reason Precondition to implement a similar system for fonts.

### 4.2.3 Opened LockedResizeLayoutManager

**Short** The private inner classes of LockedResizeLayoutManager have been made public and top level.

**Reason** Clients have better access and can better customize LockedResizeLayoutManager.

#### 4.2.4 ConflictResolver for locked resize

Short The ConflictResolver in Common can now be used to resolve conflicts on resize when locked CDockables are around. Can be applied using the key CControl.RESIZE\_LOCK\_CONFLICT\_RESOLVER.

**Reason** Developers wished to have the choice between different behaviors.

#### 4.2.5 FullLockConflictResolver

**Short** A new ConflictResolver which is inspired by the behavior of VLDocking

Reason User request

### 4.2.6 DockElementRepresentative

**Short** New interface DockElementRepresentative. Creates a link between a Component and a DockElement.

**Reason** Gives a unified way to handle popup menus and drag and drop operations.

### 4.2.7 Common: close-action and setVisible

Short Clicking onto the close-action and calling setVisible(false) on a CDockable will now have the exact same effects.

Reason Seems to be reasonable that the close action just calls setVisible.

- API: new preferences package, includes new MenuPieces

### 4.2.8 Preference system

**Short** A new system has been put in place to handle preferences. This new system is located in the package bibliothek.extension.gui.dock.

Reason This new system allows users to see and change various properties of the library. This includes things like the shortcuts for actions (like ctrl+m for maximizing a Dockable) or which colors are used by BubbleTheme. Future releases might contain more preferences.

# 4.2.9 ColorScheme as property

**Short** BasicTheme and subclasses read their ColorScheme from the DockProperties.

**Reason** a condition for the preference system

#### 4.2.10 Default locations in Common

Short Clients can set the default location of a Dockable in Common. The method setLocation of CStateManager can be used for that. Also AbstractCDockable has a new method setDefaultLocation which can be used even if the element is not yet added to a CControl.

Reason user request.

### 4.2.11 Borders on OverpaintablePanel

Short OverpaintablePanel now supports Borders.

Reason Every Component should support Borders.

# 4.3 Bugfixes

# 4.3.1 DefaultConflictResolver did not respect locked sizes

Short When several ResizeRequests with different priority had to be handled, DefaultConflictResolver did not respect all of them. The algorithm has been fixed.

# 4.3.2 Opening maximized CDockable

Short When opening a CDockable which would stack on a maximized CDockable, then the layout could get scrambled. The solution is now to unmaximize any CDockable, then add the new element, then re-maximize the CDockables.

# 4.3.3 Dropping Dockable on SplitDockStation

Short Dockables can now be dropped onto SplitDockStations which have size 0/0. In earlier versions the divider between Dockables had a fixed size in pixels. Now the size of the divider is set to 0 if the SplitDockStation is too small. This prevents children to have negative sizes.

# 4.3.4 CSplitLocation broken

**Short** CSplitLocation.expandProperty did process the first element of a tree-path twice (thanks srcnick for fixing this bug).

# 4.3.5 CStateManager.getLocation broken

Short CStateManager.getLocation did return null when it should produce a result. There were also some CLocations which did not return the correct result causing getLocation to fail.

- Bugfix: Moving away from Eclipse Theme could left some Dockables invisible

# 4.3.6 Stack-component of EclipseTheme broken

**Short** When removing all elements of EclipseStackDockComponent, some elements could remain invisible.