

**How-to Guide
SAP NetWeaver '04**



How To... Configure Commands in KM Navigation iViews

Version 1.00 – September 2004

**Applicable Releases:
SAP NetWeaver '04 Support Package Stack 04
(Portal, Knowledge Management)**

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1 Scenario

You want to configure the user interface for navigation in folders in order to modify your system in line with the following requirements:

- You want to add or remove commands to/from the user interface.
- Instead of displaying the entire *Details* dialog box, you want to provide only a part thereof (for example, the *Properties* dialog box).
- You want to replace the context menu for resources with command links.
- You want to depict certain commands using icons (for example, a pencil icon for editing).

2 Introduction

The examples in this How-to guide are only relevant for changes that can be implemented exclusively by configuring the modules delivered by SAP.

You can develop your own Java classes for more extensive changes. For more information on this, see www.sdn.sap.com → *Knowledge Management* → *Knowledge Management and Collaboration Developers' Guide* → *How to implement Flexible UI Components*.

Before you begin, read the standard documentation on the flexible user interface. This documentation is located on the SAP Help Portal at help.sap.com → *Documentation* → *SAP NetWeaver* → *Information Integration* → *Knowledge Management* → *Administration Guide* → *System Administration* → *System Configuration* → *Content Management Configuration* → *User Interface*.

2.1 Terminology

Before working through the examples in the next section, familiarize yourself with the following terms:

Layout set

A layout set groups multiple parameters and sets of parameters that control the depiction of the user interface (see: [Layout Sets](#)).

The layout set is the central item in the examples that follow.

Collection renderer

A collection renderer is responsible for displaying multiple items on the screen. You define sets of settings for collection renderers in the configuration (see: [Collection Renderer Settings](#)).

Resource renderer

A resource renderer is responsible for displaying an item (for example, a file, folder, or link) on the screen.

You define sets of settings for resource renderers in the configuration (see: [Resource Renderer Settings](#)).

Command group

A command group groups multiple commands that users can execute on the user interface. A command group can contain other command groups (that is, a command group can be nested).

To define the way in which a command group is displayed, choose the type of the menu (see: [User Interface Commands](#)).

Layout controller

A layout controller defines the number and position of screen areas in a KM navigation iView. Several layout controllers are delivered with the standard delivery of KM.

You cannot configure layout controllers. However, you should be familiar with the flavors of the various screen areas (see: [Layout Controllers](#)).

Flavor

Flavors address the individual areas in a layout controller (see: [Flavors](#)).

Layout profile

End users can use layout profiles to personalize the depiction of folder content in the *Details* dialog boxes of folders.

A layout profile references a layout set and additional data that makes handling easier for end users (see: [Layout Profiles](#)).

2.2 Method

Consider the following:

Does the standard delivery contain a layout with screen areas meeting your requirements?

- If so, create an advanced copy of this layout set and then modify it in line with your requirements. This is explained in this How-to guide.
- If not, you may have to develop your own layout controller. For more information, see the Developers Guide.

The following method is a top-down approach.

1. Determining the make-up of the layout set

Firstly, determine the name of the layout set that you want to change. If you display the layout set in the *Configuration* iView, you can navigate to the referenced renderer settings and command groups where you need to make the changes.

2. Creating an advanced copy of a layout set

To avoid changing the original item, you create copies of the layout set, sets of renderer settings, and command groups that you want to change.

Use the function *Advanced Copy* for a layout set to achieve this in a single step.

3. Editing the copied items

You make your changes in the items that you created in step 2.

4. Assigning a layout set

You can assign a layout set in the following places:

- **iView properties**
You enter a layout set in the properties of KM navigation iViews (parameter *Layout Set*).

If you want to use another layout for the root folder of the iView, enter it in the parameter *Layout Set for Root Folder* (example: *Entry Points* iView).

- **Folder details**
You can assign a layout set to a single folder or to a sub tree of a folder structure.

Usage scenario: You want to use a different layout set for taxonomies than for other repositories in the *Entry Points* iView.

Prerequisite: You have the service permission *Layout* for the folder.

From the *Details* dialog box for the folder, choose *Layout* → *Presentation*. You can apply the setting only to the current iView or to all iViews.

The setting in the folder details overrides all other settings.

All users can personalize the presentation in the *Details* dialog box using layout profiles.

See: [Folder Content Display](#).

- **OTH**

You can use the object type handler (OTH) to apply flexible parameters or parameter sets to single folders or to sub trees in the folder structure (see: [Creating an OTH file](#)).

For your settings to become visible in the iViews, the iView parameter *Layout Set Mode* must be set to *As Default*.

- **Default layout profile**

The settings for the default layout profile only take effect if there are no settings on any other level (see [Default Layout Profile](#)).

For more information on the priority of these settings, see [Priority of Settings](#).

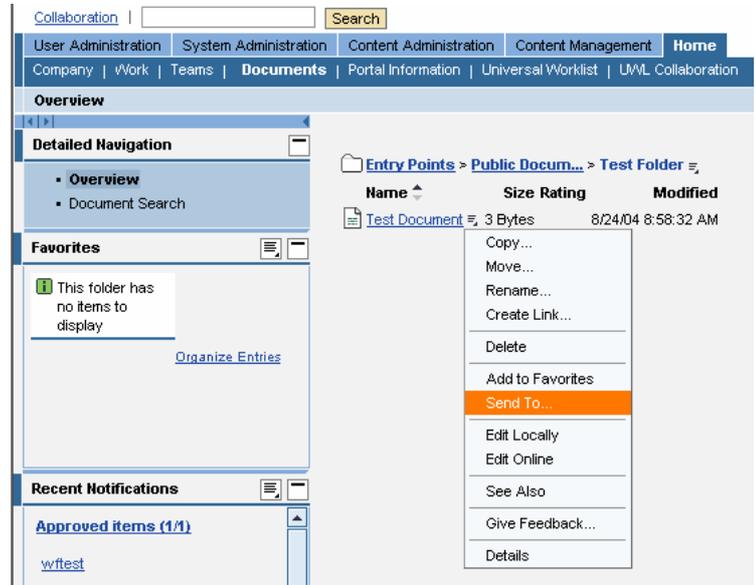
3 Removing Commands from Menus

This example describes the procedure in detail.

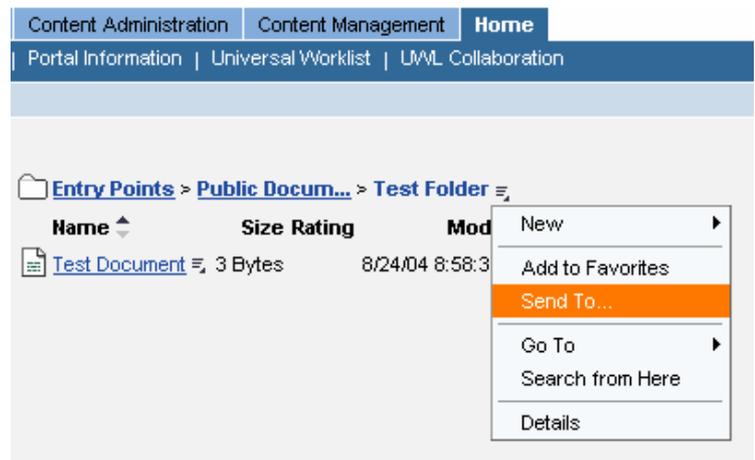
In the iView *Home* → *Documents* → *Overview* end users can navigate to various repositories. You want to remove the command *Send To* from the menus here.

The command *Send To* is contained in the following menus:

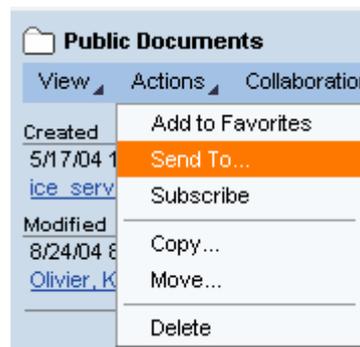
a) Context menu of list entries



b) Context menu of the breadcrumb



c) *Actions* menu of the *Details* dialog box





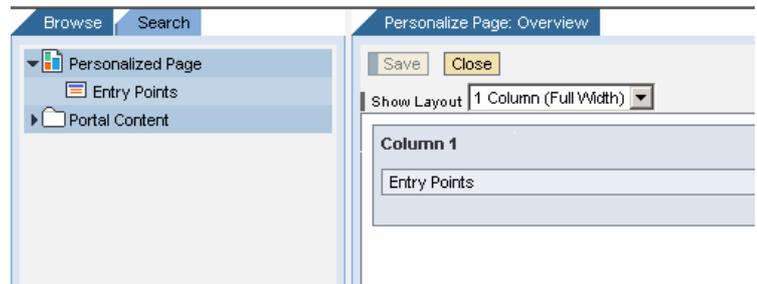
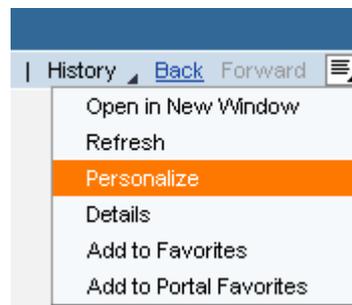
Before you begin, consider the following: If you deactivate certain services in the configuration of a repository (for example, feedback), the system hides the commands in question on the user interface.

The commands that are displayed also depend on the permissions of the logged on user. For example, if a user does not have write permission for a folder, the system does not display the *New* menu.

3.1 Determining the make-up of the layout set

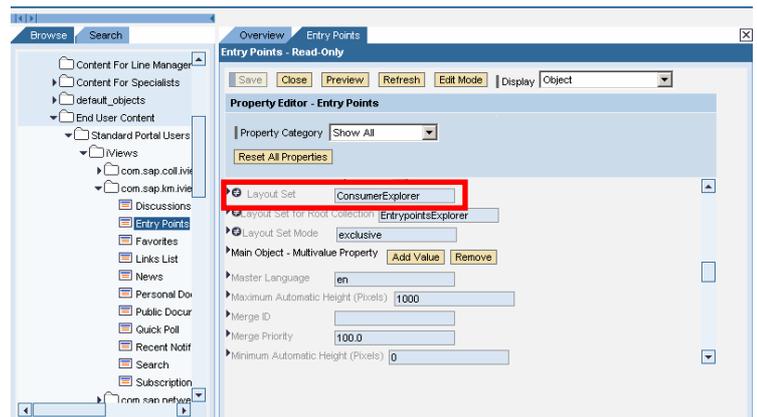
In step 1, you find out the command groups in which the command *Send To* is referenced.

1. Using page personalization, find out the name of the iView (*Entry Points*).



Use the iView properties to find out the name of the layout set:

2. Choose *Content Administration* → *Portal Content* and navigate to the *Entry Points* iView in the Portal Content Directory (PCD).
3. Use the secondary mouse button to open the iView, and then choose *Show All* from the dropdown list *Property Category*.
4. The property *Layout Set* contains the value *Consumer Explorer*.



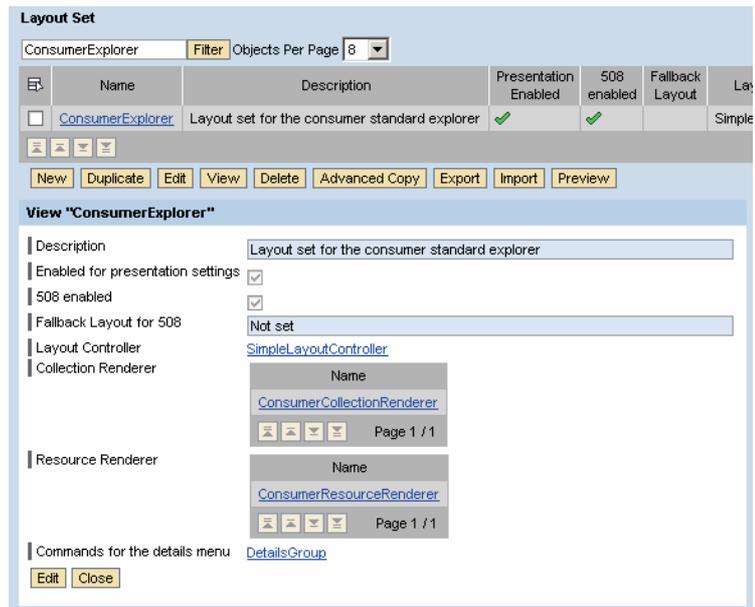
- Choose *System Administration* → *System Configuration* → *Knowledge Management* → *Content Management* → *User Interface* → *Settings* → *Layout Set*.

This gives you a list of layout sets.



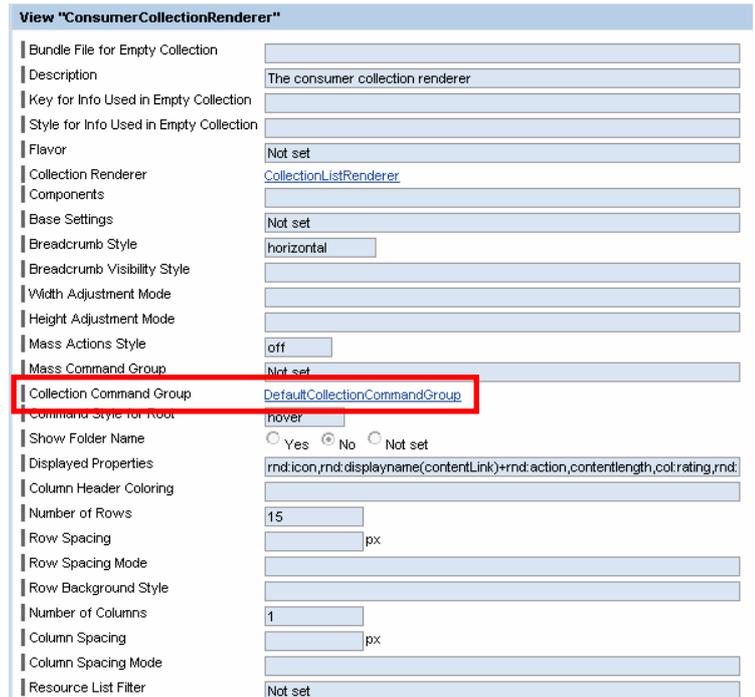
- Filter the list for the layout set *ConsumerExplorer*, and click on the name of the layout set when you find it.

The lower screen area contains the settings for the layout set.



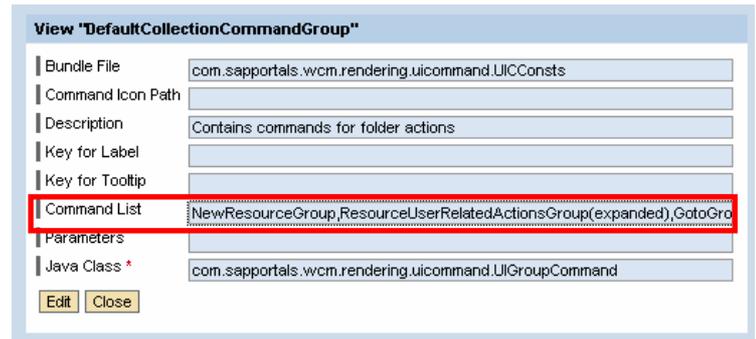
- To view the settings of the collection renderer, click on its name.

The renderer *ConsumerCollectionRenderer* references the group *DefaultCollectionCommandGroup*.



- To view the settings of the command group, click on its name.

The parameter *Command List* can contain other command groups as well as commands.

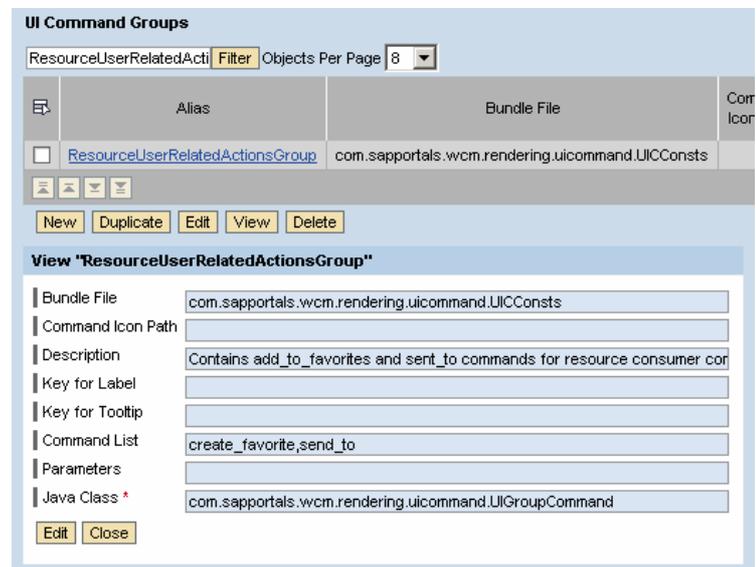


The command group *NewResourceGroup* corresponds to the user interface entry *New*. The commands in this group are displayed in a submenu.

The command group *ResourceUserRelatedActionsGroup* contains the entries *Add to Favorites* and *Send To ...*. The modifier (*expanded*) determines that the commands contained in this group are displayed in the current menu between delimiters, rather than in a submenu.



- To view the content of the command group *ResourceUserRelatedActionsGroup*, filter the list for the name of the command group, and click on the name of the group when you find it.



10. Use the *Back* button of your Web browser to go back a few screens.

11. Use the breadcrumb to navigate back to the layout set.

12. To view the settings of the resource renderer, click on *ConsumerResourceRenderer*.

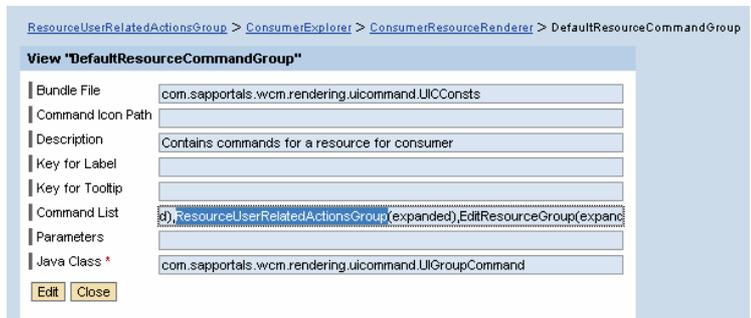
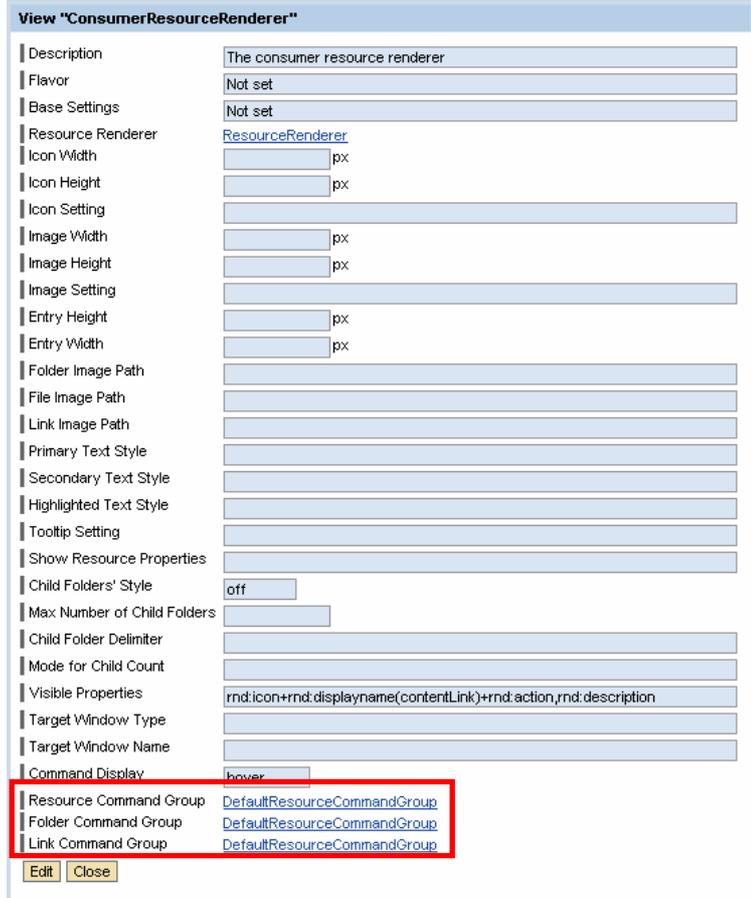
You can assign three different command groups for different types of item (resource, folder, or link) to a resource renderer.

In this set of resource renderer settings, all three parameters reference the same command group.

13. To view this command group, click on one of the three entries.

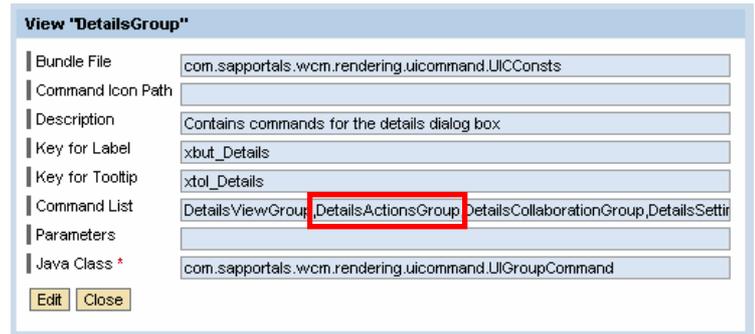
You reach the screen displayed in the screenshot to the right.

As you can see, this command group contains the same subordinate command group (*ResourceUserRelatedActionsGroup*) as in the breadcrumb menu (see step 8).



14. To view the command group for the *Details* dialog box, navigate back to the layout set and click on *DetailsGroup*.

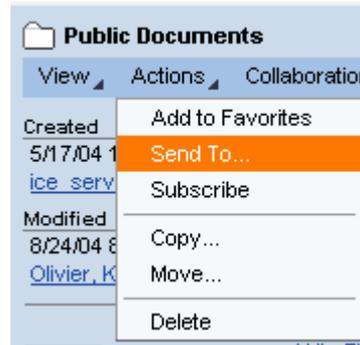
You reach the screen displayed in the screenshot to the right.



The parameter *Command List* contains a command group (*View, Actions, Collaboration*, and so on) for every menu in the menu bar.

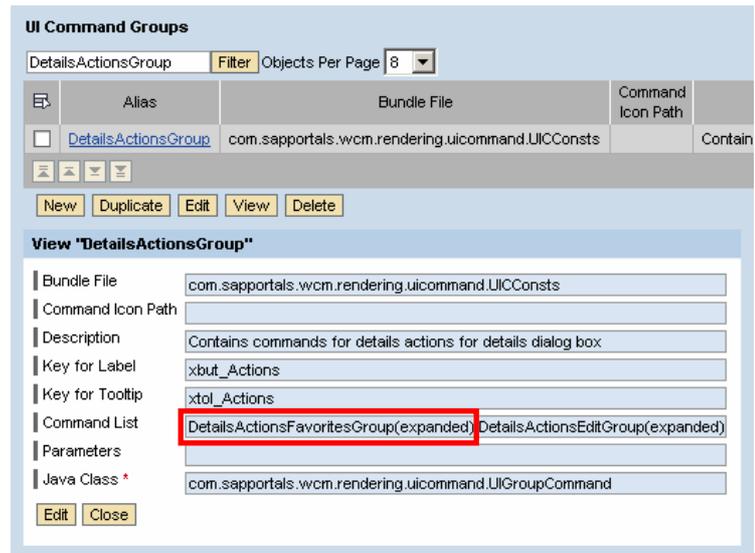
The command *Send To* is in the *Actions* menu.

The delimiters indicate nested groups.



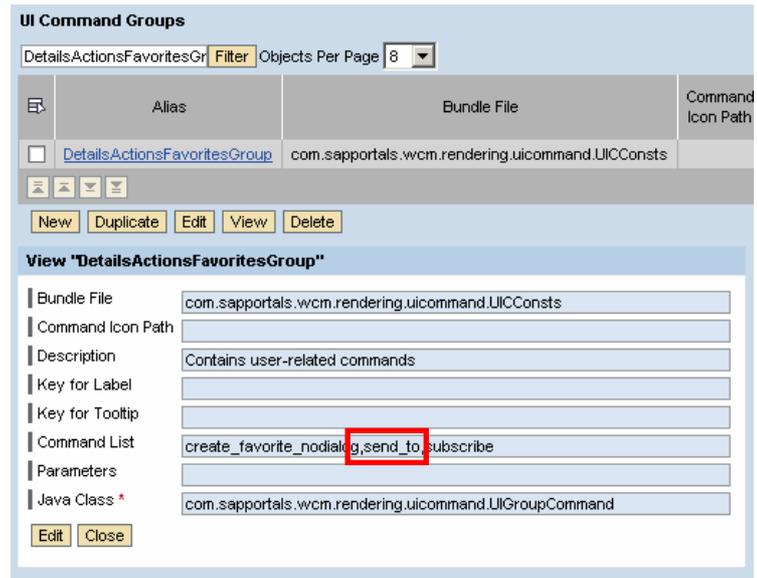
15. Filter the list for *DetailsActionsGroup*.

You reach the screen displayed in the screenshot to the right.



16. Filter the list for
DetailsActionsFavoritesGroup.

The parameter *Command List* contains the three commands that are displayed in the menu above the first delimiter.



Result:

You now have the following information:

- Name of the layout set that you want to duplicate: *ConsumerExplorer*
- Name of the command groups in which the command *Send To* is contained in this iView: *ResourceUserRelatedActionsGroup* and *DetailsActionsFavoritesGroup*. You have to duplicate these command groups.
- You also have to duplicate the superordinate command groups and sets of renderer settings that contain these command groups.

3.2 Creating an advanced copy of a layout set

To avoid changing the original items, you should create copies of sets of renderer settings and command groups that you want to change. Use the function *Advanced Copy* of a layout set to create copies of all required items in a single step.

1. Navigate back to the list of layout sets.
2. Select *ConsumerExplorer* from the list, and then choose *Advanced Copy*.
3. Check all three checkboxes under *Scope of Duplication*.
4. Because the command groups that you want to duplicate are on the deepest level in this example, choose *All* for *Levels to Copy*.
5. Naming conventions: In this example, all copies have the prefix *howto_*.
6. Leave the checkbox *Preview Only* selected and choose *Execute*.

The screenshot shows a table of layout sets. The first row is selected and highlighted in blue. Below the table is a toolbar with several buttons, including 'Advanced Copy' which is highlighted in yellow.

Name	Description	Presentation Enabled	50k enab
ConsumerExplorer	Layout set for the consumer standard explorer	<input checked="" type="checkbox"/>	

Buttons: New, Duplicate, Edit, View, Delete, **Advanced Copy**, Export, Import, Preview

The screenshot shows the 'Advanced Copy of Layout Settings' dialog box. It is divided into several sections:

- Scope of Duplication:** Three checkboxes are checked: 'Collection Renderer Settings', 'Resource Renderer Settings', and 'UI Command Groups'. The 'Levels to Copy' dropdown is set to 'All'.
- Naming Conventions:** Three input fields are present: 'Replace', 'with', and 'Add'. The 'Add' field contains 'howto_'. The 'As Prefix' radio button is selected.
- Naming conflicts:** Three radio buttons are present: 'Keep Existing Name', 'Replace Existing Name', and 'Add Counter'. The 'Add Counter' radio button is selected.
- Buttons:** 'Execute' is highlighted in yellow, 'Reset' is in grey, and 'Preview Only' is checked.

7. The preview displays the objects to be copied.

You can have the following options:

a) If you want to remove an item, deselect it (example: the command *send_to*).

This removes the command from the duplicate command group.

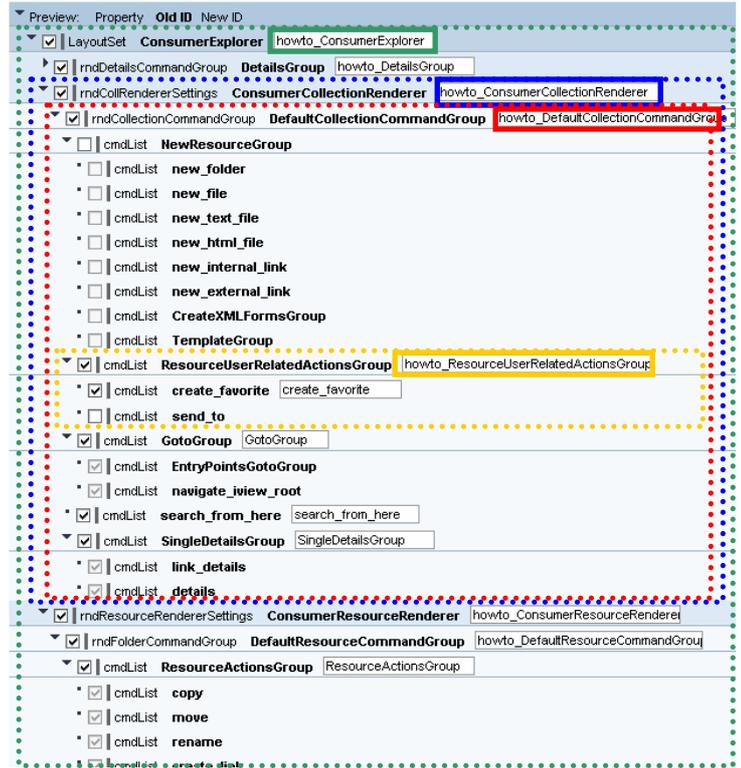
b) If you want to create a copy of an item, the new ID must be different to the old ID (example: *howto_ResourceUserRelatedActionsGroup*).

c) If you want to use the original item rather than copying an item, the new ID must be identical to the old ID (example: *GotoGroup*).

Because we added a prefix in this example on the previous screen, you now have to remove this manually. The subordinate checkboxes are then grayed out.

8. Deselect *Preview Only* and choose *Execute* again.

9. The system displays the structure of your layout set in a results list.



3.3 Checking results and editing them if necessary

In this example you merely display the duplicated items in order to check the results.
If you want to add commands as well as removing them, you edit the items in this step.

1. Filter the list of layout sets for the prefix (for example, *howto_*) and display the layout set when you find it.

2. Navigate to the command group for the folder.

Choose *howto_ConsumerCollectionRenderer*
→ *howto_DefaultCollectionCommandGroup*

3. Filter the list of command groups for *howto_ResourceUserRelatedActionsGroup*.

The command *send_to* is no longer contained in the parameter *Command List*.

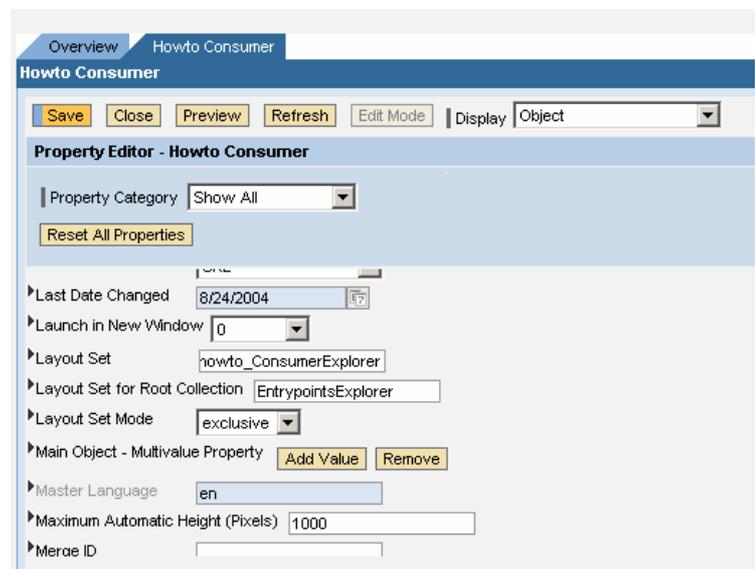
4. If you want to add other commands to the command group, choose *Edit*.

5. Navigate back to the layout set *howto_ConsumerExplorer*.
6. You can navigate from here to the resource renderer settings and the command group for the *Details* dialog box in order to check your changes and make further changes if necessary.

3.4 Creating an iView

To provide end users with the changed user interface without the *Send To* command, create an iView. In this iView you reference the layout set that you created in step 3.2.

1. Choose *Content Administration* → *Portal Content*.
2. Create a new iView based on the template *KM Navigation iView*.
3. Enter the following iView parameters:
 - Layout Set: *howto_ConsumerExplorer*
 - Layout Set for Root Collection: *EntrypointsExplorer*
 - Layout Set Mode: *Exclusive*
 - Path to Initially Displayed Folder: */entrypoints*
 - Path to Root Folder for Navigation: */entrypoints*
4. Save your entries.



5. Select the layout set and choose *Preview*.

A dialog box appears in which you can specify a folder for the preview.

6. Choose *Preview*.

Layout Set

howto Objects Per Page 8

<input type="checkbox"/>	Name	Description	Presentation Enabled
<input checked="" type="checkbox"/>	howto_ConsumerExplorer	Layout set for the consumer standard explorer	<input checked="" type="checkbox"/>

Preview of "howto_ConsumerExplorer"

Path to Initially Displayed Folder * /documents

Path to Root Folder for Navigation /documents

Result:

The *Send To* command is no longer displayed in the context menu for the breadcrumb, the context menus for documents, or in the *Details* dialog box.

Entry Points > Public Docum... > Test Folder

Name	Size	Rating	Mod
Test Document	3 Bytes		8/24/04 8:58:3

- Add to Favorites
- Go To
- Search from Here
- Details



You have now changed the layout set for the iView.

However, folder settings have a higher priority than iView settings.

If you have set other layout sets for folders, the command *Send To* may still be available.

If end users are able to personalize the display of folders using layout profiles, don't forget about the layout sets referenced in those layout profiles.

Entry Points > Public Docum... > Test Folder

Name	Size	Rating	Modified
Test Document	3 Bytes		8/24/04 8:58:32 AM

- Copy...
- Move...
- Rename...
- Create Link...
- Delete
- Add to Favorites
- Edit Locally
- Edit Online
- See Also
- Give Feedback...
- Details

Test Document

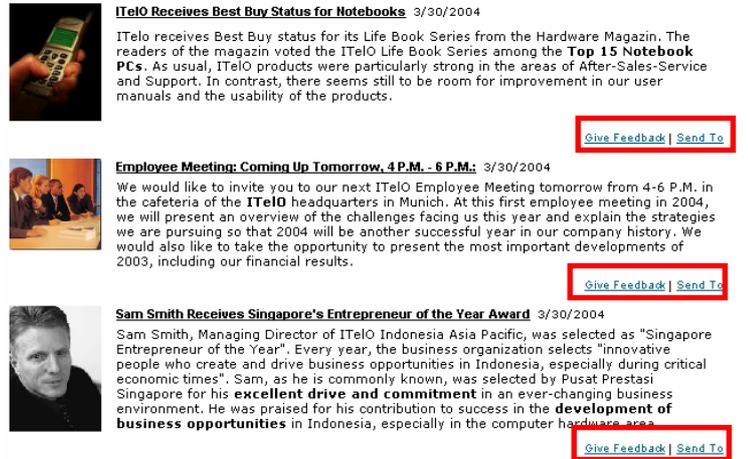
View Actions Collaboration Settings

Size	3 Bytes	Add to Favorites
Created	8/24/04 8:58:32 AM	Subscribe
Modified	8/24/04 8:58:32 AM	Lock
Read	8/24/04 8:58:32 AM	Edit Locally
		Edit Online
		Upload
		Download
		Copy...
		Move...
		Rename...
		Delete

4 Removing Commands from the News iView

You want to remove the command *Send To* from the *NewsiView*:

Before:

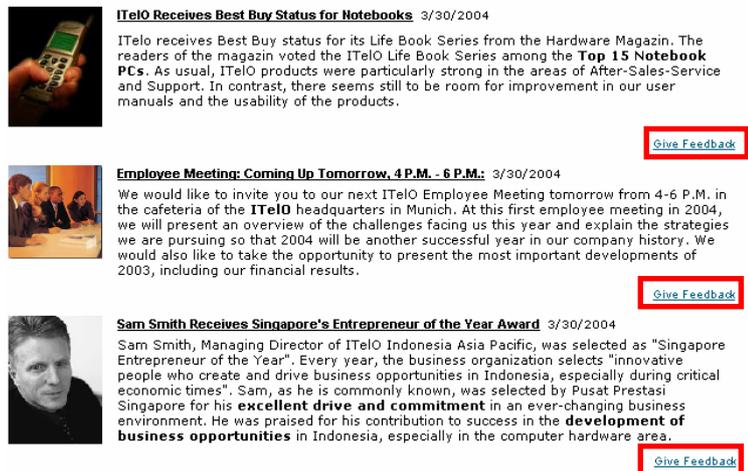


ITeLO Receives Best Buy Status for Notebooks 3/30/2004
ITeLO receives Best Buy status for its Life Book Series from the Hardware Magazin. The readers of the magazin voted the ITeLO Life Book Series among the **Top 15 Notebook PCs**. As usual, ITeLO products were particularly strong in the areas of After-Sales-Service and Support. In contrast, there seems still to be room for improvement in our user manuals and the usability of the products.

Employee Meeting: Coming Up Tomorrow, 4 P.M. - 6 P.M.: 3/30/2004
We would like to invite you to our next ITeLO Employee Meeting tomorrow from 4-6 P.M. in the cafeteria of the **ITeLO** headquarters in Munich. At this first employee meeting in 2004, we will present an overview of the challenges facing us this year and explain the strategies we are pursuing so that 2004 will be another successful year in our company history. We would also like to take the opportunity to present the most important developments of 2003, including our financial results.

Sam Smith Receives Singapore's Entrepreneur of the Year Award 3/30/2004
Sam Smith, Managing Director of ITeLO Indonesia Asia Pacific, was selected as "Singapore Entrepreneur of the Year". Every year, the business organization selects "innovative people who create and drive business opportunities in Indonesia, especially during critical economic times". Sam, as he is commonly known, was selected by Pusat Prestasi Singapore for his **excellent drive and commitment** in an ever-changing business environment. He was praised for his contribution to success in the **development of business opportunities** in Indonesia, especially in the computer hardware area.

After:



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You define the layout for the content of the news in the XML Forms Builder on the *RenderListItem* form.

You define the commands for each item in the configuration of the user interface. The commands *Give Feedback* and *Send To* are contained in a command group displayed for every resource (see [XML Documents on the Flexible User Interface](#)).

The procedure for changing command groups has already been explained in section 3.



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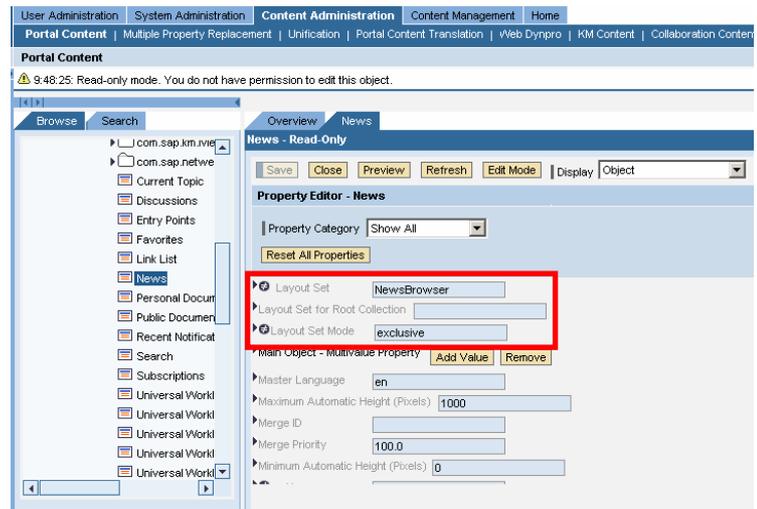
Sam Smith Receives Singapore's Entrepreneur of the Year Award 3/30/2004
Sam Smith, Managing Director of ITeLO Indonesia Asia Pacific, was selected as "Singapore Entrepreneur of the Year". Every year, the business organization selects "innovative people who create and drive business opportunities in Indonesia, especially during critical economic times". Sam, as he is commonly known, was selected by Pusat Prestasi Singapore for his **excellent drive and commitment** in an ever-changing business environment. He was praised for his contribution to success in the **development of business opportunities** in Indonesia, especially in the computer hardware area.

4.1 Determining the make-up of the layout set

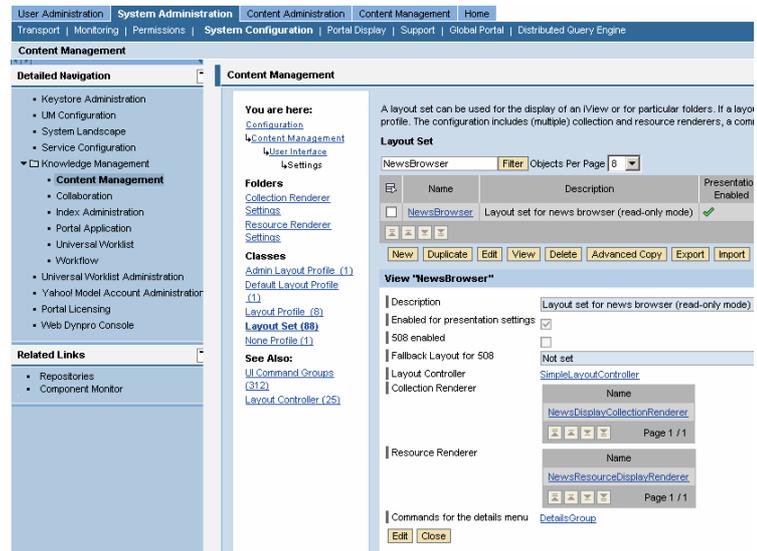
In this step you find out the name of the command group that you want to change.

1. Display the properties of the *News*iView in the Portal Content Directory (PCD).

The iView uses the layout set *NewsBrowser*.



2. Display the layout set *NewsBrowser* in the *Configuration* iView (see: 3.1, steps 5 - 6).



3. Navigate to the resource renderer settings and go from there to the command group for resources (see 3.1, steps 12 - 13).

Result: You now know that the command *send_to* is contained in the command group *NewsDisplayGroup*. To remove the command from the group, you need to duplicate the set of resource renderer settings and the command group as well as the layout set.



4.2 Creating an advanced copy of the layout set

To avoid changing the original items, create copies of the sets of resource renderer settings and of the command group.

1. Navigate back to the list of layout sets.
2. Select *NewsBrowser* and then choose *Advanced Copy*.
3. Deselect *Collection Renderer Settings*.
4. Naming conventions: In this example, we give all copies that we create the prefix *howto_*.
5. Leave the checkbox *Preview Only* selected and choose *Execute*.
6. If you do not need the *Details* dialog box in the *NewsView*, deselect the command group for it.
7. You want to create copies of the following items:
 - *NewsBrowser*
 - *NewsResourceDisplayRenderer*
 - *NewsDisplayGroup*
8. Deselect *Preview Only* and choose *Execute* again.

9. The system displays the structure of your layout set in a results list.

Result:	Property	New Value
▼	LayoutSet	howto_NewsBrowser
▪	rndCollRendererSettings	NewsDisplayCollectionRenderer
▼	rndResourceRendererSettings	howto_NewsResourceDisplayRenderer
▼	rndFolderCommandGroup	howto_NewsDisplayGroup
▪	cmdList	give_feedback
▪	cmdList	send_to
▼	rndResourceCommandGroup	howto_NewsDisplayGroup
▪	cmdList	give_feedback
▪	cmdList	send_to
▼	rndLinkCommandGroup	howto_NewsDisplayGroup
▪	cmdList	give_feedback
▪	cmdList	send_to

Preview Only

4.3 Removing commands from the command group

In this step you modify the command group in line with your requirements.

1. Filter the list of layout sets for *howto* and display your layout set when you find it.

Layout Set

howto Objects Per Page 8

Name	Description	Presentation Enabled
<input type="checkbox"/> howto_ConsumerExplorer	Layout set for the consumer standard explorer	<input checked="" type="checkbox"/>
<input type="checkbox"/> howto_NewsBrowser	Layout set for news browser (read-only mode)	<input checked="" type="checkbox"/>

New Duplicate Edit View Delete Advanced Copy Export Import Preview

View "howto_NewsBrowser"

Description: Layout set for news browser (read-only mode)

Enabled for presentation settings:

508 enabled:

Fallback Layout for 508: Not set

Layout Controller: SimpleLayoutController

Collection Renderer:

Name
NewsDisplayCollectionRenderer

Page 1 / 1

Resource Renderer:

Name
howto_NewsResourceDisplayRenderer

Page 1 / 1

Commands for the details menu: Not set

Edit Close

2. Navigate to the resource renderer and go to the command group from there.
3. Choose *Edit*.
4. Delete the command *send_to* from the parameter *Command List*.
5. Choose *OK*.

howto_NewsBrowser > howto_NewsResourceDisplayRenderer > howto_NewsDisplayGroup

Edit "howto_NewsDisplayGroup"

Object remains locked until you click OK or Cancel

Bundle File: com.sapportals.wcm.rendering.uicommand.UICConsts

Command Icon Path:

Description: Contains read-only commands for news

Key for Label:

Key for Tooltip:

Command List: give_feedback;send_to

Parameters:

Java Class *: com.sapportals.wcm.rendering.uicommand.UIGroupCommand

OK Apply Cancel

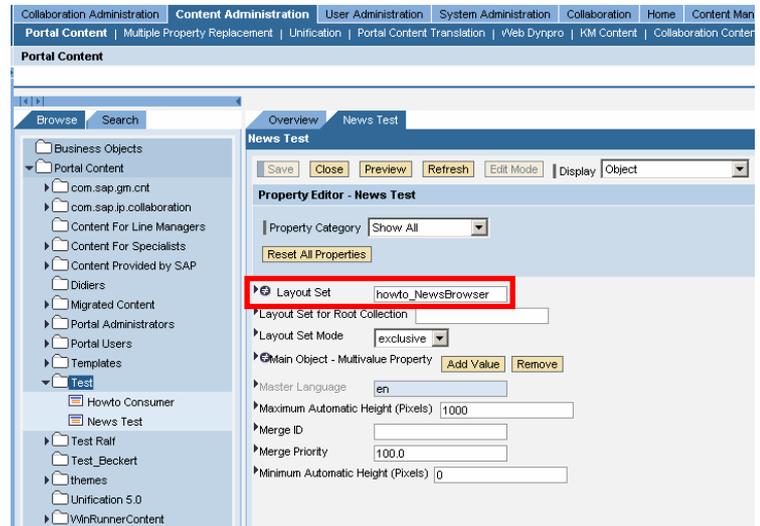
4.4 Creating an iView

In order to provide the changed user interface to end users, create an iView. In this iView, reference the layout set that you created in step 4.2.

1. Create an iView as described in section 3.1.3. Use the template *KM Navigation iView*.
2. Enter the following parameters:
 - Layout Set: `howto_NewsBrowser`
 - Layout Set for Root Collection: Empty
 - Layout Set Mode: `Exclusive`
 - Path to Initially Displayed Folder: `/documents/News`
 - Path to Root Folder for Navigation: `/documents/News`

Result:

The new iView is identical to the copied template apart from the fact that it does not contain the command *Send To*.



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[Give Feedback](#)

5 Creating Links to Individual Screens of the Details Dialog Box

You want to create a layout that is similar to the layout set *AdminExplorer* but which differs in the following ways:

- Instead of the entire *Details* dialog box, you want users to be able to display the properties only.
- You don't want documents to have a context menu. You want to display a link to the *Properties* dialog box instead of the context menu indicator.
- You want to hide the column showing who last modified the item.

Before:

	Name	Size	Modified	Modified By
<input type="checkbox"/>	Document 1	13 Bytes	8/30/04 2:26:43 PM	Summer, Susan
<input type="checkbox"/>	Document 2	9 Bytes	8/30/04 2:26:54 PM	Summer, Susan
<input type="checkbox"/>	Document 3	9 Bytes	8/30/04 2:27:04 PM	Summer, Susan
<input type="checkbox"/>	Document 4	21 Bytes	8/30/04 2:27:15 PM	Summer, Susan
<input type="checkbox"/>	Document 5	25 Bytes	8/30/04 2:27:28 PM	Summer, Susan

After:

	Name	Size	Modified
<input type="checkbox"/>	Document 1 Properties	7 Bytes	8/25/04 2:44:56 PM
<input type="checkbox"/>	Document 2 Properties	3 Bytes	8/25/04 2:45:13 PM
<input type="checkbox"/>	Document 3 Properties	3 Bytes	8/25/04 2:45:30 PM
<input type="checkbox"/>	Document 4 Properties	13 Bytes	8/25/04 2:47:04 PM
<input type="checkbox"/>	Document 5 Properties	13 Bytes	8/25/04 2:47:30 PM

5.1 Determining the make-up of the layout set

1. Choose *System Administration* → *System Configuration* → *Knowledge Management* → *Configuration* → *Content Management* → *User Interface* → *Settings* → *Layout Set*.
2. Click on *AdminExplorer* and navigate from there to *AdminCollectionListRenderer*.
3. The parameter *Displayed Properties* defines which resource properties are displayed in the list. You can also add commands here.
To do this, duplicate this set of collection renderer settings (see the next step).

The screenshot shows the configuration page for `AdminCollectionListRenderer` in AdminExplorer. The page title is "View 'AdminCollectionListRenderer'". The configuration is organized into sections with expandable/collapsible headers. The "Displayed Properties" field is highlighted with a red box. The value for "Displayed Properties" is `rnd:icon,rnd:displayName(contentLink)+rnd:action,contentlength,rnd:lock,modif`. Other visible settings include "Description" (Collection list renderer for the administrators explorer), "Flavor" (List), "Collection Renderer" (CollectionListRenderer), "Base Settings" (Not set), "Breadcrumb Style" (off), "Breadcrumb Visibility Style" (Not set), "Width Adjustment Mode" (compact), "Height Adjustment Mode" (compact), "Mass Actions Style" (off), "Mass Command Group" (Not set), "Collection Command Group" (Not set), "Command Style for Root" (off), "Show Folder Name" (No), "Column Header Coloring" (Transparent), and "Number of Rows" (20).

Property	Value
Bundle File for Empty Collection	
Description	Collection list renderer for the administrators explorer
Key for Info Used in Empty Collection	
Style for Info Used in Empty Collection	
Flavor	List
Collection Renderer	CollectionListRenderer
Components	
Base Settings	Not set
Breadcrumb Style	off
Breadcrumb Visibility Style	
Width Adjustment Mode	compact
Height Adjustment Mode	compact
Mass Actions Style	off
Mass Command Group	Not set
Collection Command Group	Not set
Command Style for Root	off
Show Folder Name	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Not set
Displayed Properties	rnd:icon,rnd:displayName(contentLink)+rnd:action,contentlength,rnd:lock,modif
Column Header Coloring	Transparent
Number of Rows	20

5.2 Creating an advanced copy of the layout set

1. Select the entry *AdminExplorer* and choose *Advanced Copy*.

Layout Set	
Filter	
Name	Description
<input checked="" type="checkbox"/> AdminExplorer	Layout set for the administrator's explorer
<input type="checkbox"/> AdminIndexFolderSelector	Used when resources need to be selected for adding index folders
<input type="checkbox"/> AdminMultiFolderSelector	Used when multiple folders need to be selected for a complex command
<input type="checkbox"/> AdminOnlyFileSelector	Used if a single file needs to be selected for a complex command
<input type="checkbox"/> AdminOnlyFolderSelector	Used if a single folder needs to be selected for a complex command
<input type="checkbox"/> AdminSelector	Used when resources need to be selected for a complex command
<input type="checkbox"/> AdminSingleFolderSelector	Used if a single folder needs to be selected for a complex command
<input type="checkbox"/> AppAnnouncementExplorer	Display of Announcement

2. Select only *Collection Renderer Settings* under *Scope of Duplication*.

Advanced Copy of Layout Settings

Scope of Duplication

Collection Renderer Settings
 Resource Renderer Settings
 UI Command Groups

Levels to Copy:

Naming Conventions

Replace
 with
 Add
 As Prefix
 As Suffix

Naming conflicts

Keep Existing Name
 Replace Existing Name
 Add Counter

Preview Only

3. Naming conventions: In this example, we give all copies that we create the prefix *howto_*.

4. Leave the checkbox *Preview Only* selected and choose *Execute*.

You reach the screen shown in the screenshot to the right.

Preview: Property Old ID New ID

- LayoutSet **AdminExplorer** howto_AdminExplorer
 - rndResourceRendererSettings **AdminResourceRenderer** AdminResourceRenderer
 - rndDetailsCommandGroup **DetailsGroup** DetailsGroup
 - rndCollRendererSettings **AdminBreadcrumb** howto_AdminBreadcrumb
 - rndCollRendererSettings **AdminCollectionListRenderer** howto_AdminCollectionListRenderer
 - rndCollRendererSettings **AdminCollectionTreeRenderer** howto_AdminCollectionTreeRenderer
 - rndResourceRendererSettings **AdminTreeResourceRenderer** AdminTreeResourceRenderer
 - rndCollRendererSettings **AdminMenu** howto_AdminMenu
 - rndMassCommandGroup **AdminMassGroup** AdminMassGroup

Preview Only

5. All changes made in this example relate to the list. The other collection renderers (breadcrumb, tree, and menu) are to remain unchanged. You should therefore delete the prefix *howto_* in the following input fields:

- *AdminBreadcrumb*
- *AdminCollectionTreeRenderer*
- *AdminMenu*

Only items whose names are different to the original items are duplicated.

6. Deselect *Preview Only* and choose *Execute* again.

The system displays the structure of your layout set in a results list.

Preview: Property Old ID New ID

- LayoutSet **AdminExplorer** howto_AdminExplorer
 - rndResourceRendererSettings **AdminResourceRenderer** AdminResourceRenderer
 - rndDetailsCommandGroup **DetailsGroup** DetailsGroup
 - rndCollRendererSettings **AdminBreadcrumb** AdminBreadcrumb
 - rndCollRendererSettings **AdminCollectionListRenderer** howto_AdminCollectionListRenderer
 - rndCollRendererSettings **AdminCollectionTreeRenderer** AdminCollectionTreeRenderer
 - rndResourceRendererSettings **AdminTreeResourceRenderer** AdminTreeResourceRenderer
 - rndCollRendererSettings **AdminMenu** AdminMenu
 - rndMassCommandGroup **AdminMassGroup** AdminMassGroup

Execute Reset Preview Only

Result: Property New Value

- LayoutSet **howto_AdminExplorer**
 - rndResourceRendererSettings **AdminResourceRenderer**
 - rndDetailsCommandGroup **DetailsGroup**
 - rndCollRendererSettings **AdminBreadcrumb**
 - rndCollRendererSettings **howto_AdminCollectionListRenderer**
 - rndCollRendererSettings **AdminCollectionTreeRenderer**
 - rndResourceRendererSettings
 - rndCollRendererSettings **AdminMenu**
 - rndMassCommandGroup

Execute Reset Preview Only

5.3 Adding commands to collection renderer settings

Before you begin, you may want to view the configuration of the user interface that you are about to use.

Choose *System Administration* → *System Configuration* → *Knowledge Management* → *Configuration* → *Content Management* → *User Interface* → *Commands* → *UI Commands*.

The name of the command that you are going to use is *details_properties_ex*.

UI Commands

	Alias	Bundle File	Command Icon Path
<input type="checkbox"/>	details_folder_settings_ex	com.sapportals.wcm.rendering.uicommand.UICConsts	Dis
<input type="checkbox"/>	details_permissions_ex	com.sapportals.wcm.rendering.uicommand.UICConsts	Dis
<input type="checkbox"/>	details_properties_ex	com.sapportals.wcm.rendering.uicommand.UICConsts	Dis
<input type="checkbox"/>	details_subscription_ex	com.sapportals.wcm.rendering.uicommand.UICConsts	Dis

View "details_properties_ex"

- Bundle File: com.sapportals.wcm.rendering.uicommand.UICConsts
- Command Icon Path:
- Description: Displays the properties dialog into a new window
- Key for Label: xbut_Properties
- Key for Tooltip: xtol_Properties
- Mass Command:
- Parameters: standalone=true,command=properties
- Java Class: com.sapportals.wcm.rendering.uicommand.cm.UIDetailsCommand



Take a look at the interface command *details_properties* too. If the parameter *standalone=true* is not set, the command opens the *Properties* screen within the *Details* dialog box.

1. Display the parameters of your layout set.

Layout Set

	Name	Description	Presentation Enabled	Admin
<input type="checkbox"/>	howto_AdminExplorer	Layout set for the administrator's explorer	<input checked="" type="checkbox"/>	Admin

View "howto_AdminExplorer"

- Description: Layout set for the administrator's explorer
- Enabled for presentation settings:
- Layout Controller: [AdminNavigationLayoutController](#)
- Collection Renderer:

Name
AdminBreadcrumb
howto_AdminCollectionListRenderer
AdminCollectionTreeRenderer
AdminMenu
- Resource Renderer:

Name
AdminResourceRenderer
- Commands for the details menu: [DetailsGroup](#)

2. Display the copy of the collection renderer settings.

3. Make sure that the flavor is set correctly.

In this example the flavor is adopted from the template, and should therefore be correct.

View "howto_AdminCollectionListRenderer"

Description: Collection list renderer for the administrators explorer

Flavor: List

Collection Renderer: CollectionListRenderer

Components: [Empty]

Base Settings: Not set

Breadcrumb Style: off

Breadcrumb Visibility Style: [Empty]

Width Adjustment Mode: compact

Height Adjustment Mode: compact

Mass Actions Style: off

Mass Command Group: Not set

Collection Command Group: Not set

Command Style for Root: [Empty]

Show Folder Name: True False Not set

Displayed Properties: rnd:icon,rnd:displayname(contentLink)+rnd:action,contentlength,rnd:lock,modif

Column Header Coloring: Transparent

Number of Rows: 20

Row Spacing: [Empty] px

Row Spacing Mode: [Empty]

Row Background Style: standard

Number of Columns: [Empty]

Column Spacing: [Empty] px

Column Spacing Mode: [Empty]

Resource List Filter: Not set

Extensions to be Filtered: [Empty]

Mime Types to be Filtered: [Empty]

Resource Types to be Filtered: [Empty]

Show Hidden Resources: True False Not set

Folders Selection: all

Files Selection: all

Links Selection: all

Property for Sorting: rnd:displayname

Sorting Mode: ascending

Item Selection Mode: multiple

Background Image Path: [Empty]

Background Image Style: [Empty]

Max. Links for Pager: 5

Edit Close

The correct flavor has to be set in order for the settings that you made in your set of collection renderer settings to take effect.

The flavor defines the layout controller screen area in which your settings take effect.

For an overview of the layout controllers delivered by SAP and their flavors, see [Layout Controllers](#).

Flavor Menu

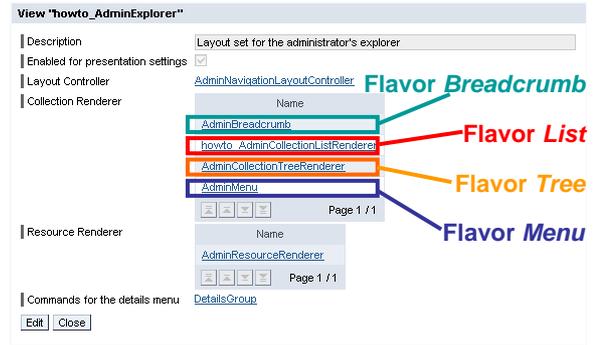
Flavor Breadcrumb

documents > Public Document... > Test Folder

Name	Size	Modified	Modified By
Document 1	13 Bytes	8/30/04 2:26:43 PM	Summer, Susan
Document 2	9 Bytes	8/30/04 2:26:54 PM	Summer, Susan
Document 3	9 Bytes	8/30/04 2:27:04 PM	Summer, Susan
Document 4	21 Bytes	8/30/04 2:27:15 PM	Summer, Susan
Document 5	25 Bytes	8/30/04 2:27:28 PM	Summer, Susan

Flavor Tree

Flavor List

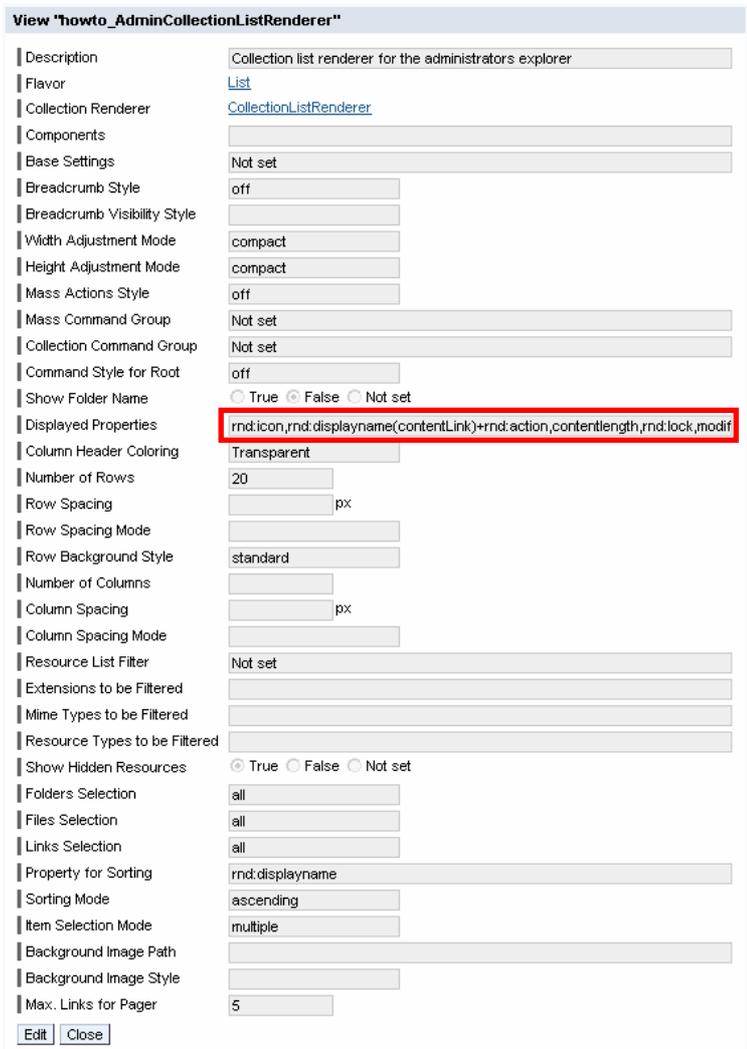


4. Choose *Edit* and edit the parameter *Displayed Properties*.
5. To remove the display of the last modifier, delete the following entry:
modifiedby
6. To remove the popup indicator for opening the context menu, remove the following entry:
+rnd:action
7. To add a command for calling the *Properties* dialog box, add the following entry:
rnd:command(command=details_properties_ex/style=link)

After your changes, the line has the following content:

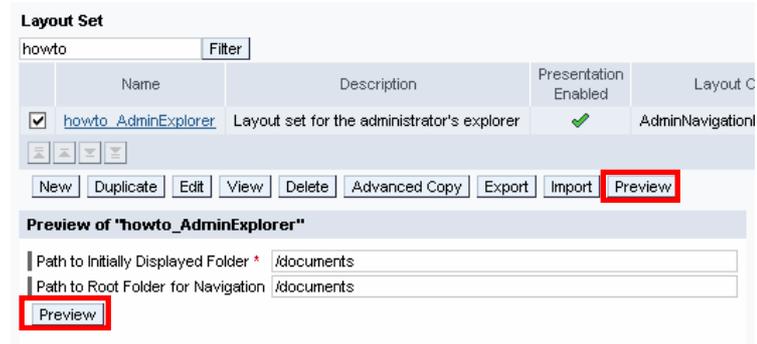
```
rnd:icon,rnd:displayname(contentLink),rnd:command(command=details_properties_ex/style=link),contentlength,rnd:lock,modified
```

For more information on syntax, see [Displaying Properties](#).



5.4 Displaying the results

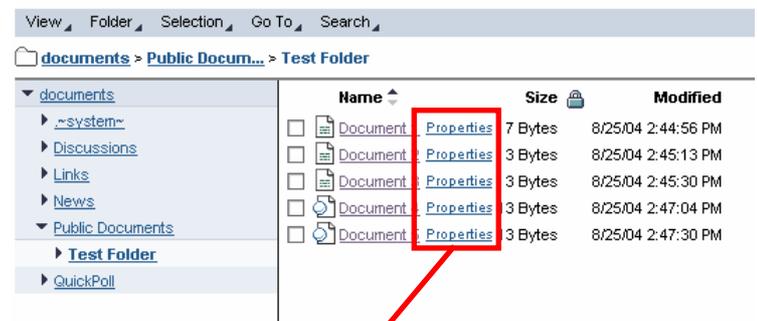
1. Navigate back to the list of layout sets.
2. Filter the list for *howto*.
3. Choose *Preview*.
4. A dialog box appears in which you can specify a folder for the preview.
5. Choose *Preview*.



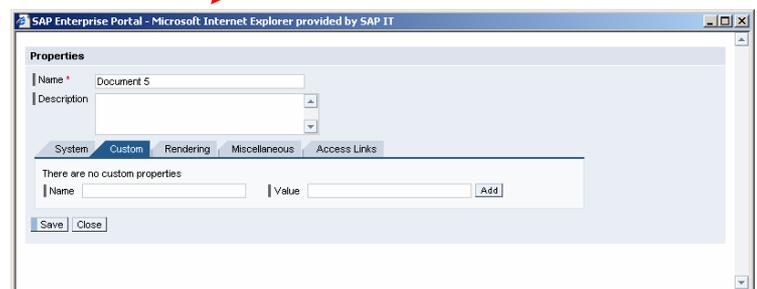
Result:

You obtain a layout as shown in the screenshot to the right.

You can now create an iView as described in the previous examples.



If you click on *Properties*, the properties are displayed in a new browser window.



The text displayed in the list (*Properties*) is read language-dependently from a bundle file specified in the configuration of the interface command.

If you want to change the text, see [Changing the Labels of Commands](#).

The screenshot shows the 'UI Commands' configuration window. At the top, there is a search filter for '*_ex'. Below it is a table listing several commands. The 'details_properties_ex' command is selected, and its details are shown in a 'View' pane below. The details pane has several fields, with 'Bundle File' and 'Key for Label' highlighted with red boxes.

Alias	Bundle File	Command Icon Path
details_folder_settings_ex	com.sapportals.wcm.rendering.uicommand.UICConsts	
details_permissions_ex	com.sapportals.wcm.rendering.uicommand.UICConsts	
details_properties_ex	com.sapportals.wcm.rendering.uicommand.UICConsts	
details_subscription_ex	com.sapportals.wcm.rendering.uicommand.UICConsts	

View "details_properties_ex"

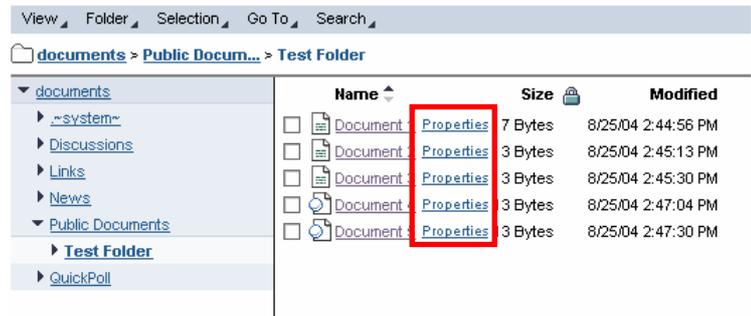
Bundle File	com.sapportals.wcm.rendering.uicommand.UICConsts
Command Icon Path	
Description	Displays the properties dialog into a new window
Key for Label	xbut_Properties
Key for Tooltip	xtol_Properties
Mass Command	<input type="checkbox"/>
Parameters	standalone=true,command=properties
Java Class *	com.sapportals.wcm.rendering.uicommand.cm.UIDetailsCommand

Buttons: Edit, Close

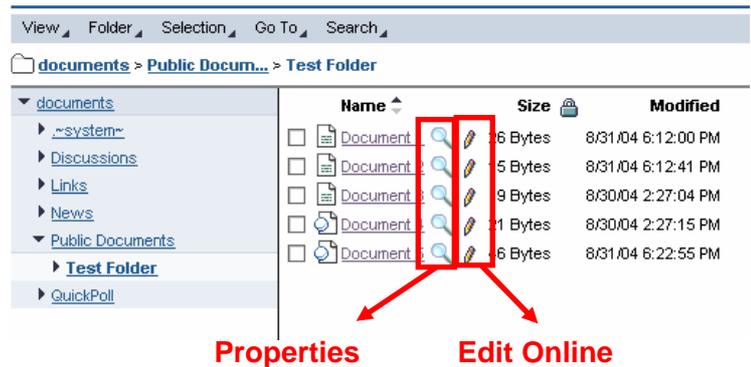
6 Creating Icons for Executing Commands

This example builds on example 5. Instead of displaying the link *Properties*, you want to display an icon. You also want to display a pencil icon for editing a document.

Before:



After:



6.1 Uploading an image file to a KM folder

Upload an image file to a KM folder:

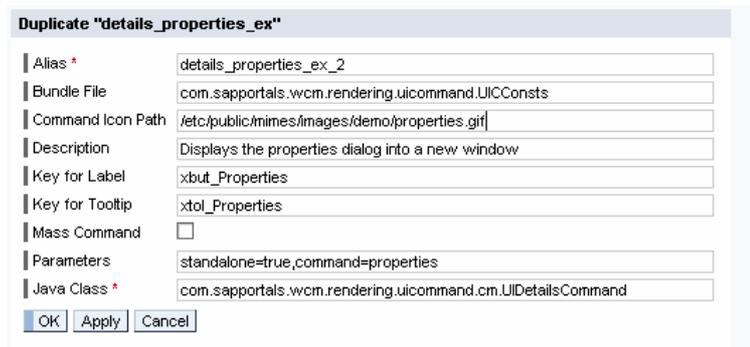
1. Choose *Content Administration* → *KM Content*.
2. Navigate to a folder that you use to store icons.
3. Choose *Folder* → *New* → *Upload* and upload the image file.



6.2 Creating an interface command

You now create an interface command that references your icon.

1. Choose *System Administration* → *System Configuration* → *Knowledge Management* → *Configuration* → *Content Management* → *User Interface* → *Commands* → *UI Commands*.
2. Filter the list for *details_properties*.
3. Select *details_properties_ex* and then choose *Duplicate*.
4. Enter the path to the image file into the parameter *Command Icon Path*.
5. Choose *OK*.



6.3 Replacing the interface command for *Properties*

You now enter the command that you created in the previous steps into the collection renderer settings.

1. Choose *User Interface* → *Collection Renderer Settings* → *Collection List Renderer Settings*.
2. Filter the list for *howto*.
3. Select *howto_AdminCollectionListRenderer* and then choose *Edit*.
4. Change the entry for the command to the following:

```
rnd:command(command=details_properties_ex_2/style=icon)
```
5. Choose *OK*.

Edit "howto_AdminCollectionListRenderer"

Object remains locked until you click OK or Cancel

Description: Collection list renderer for the administrators explorer

Flavor: List

Collection Renderer: CollectionListRenderer

Components:

Base Settings: Not set

Breadcrumb Style: off

Breadcrumb Visibility Style: Not set

Width Adjustment Mode: compact

Height Adjustment Mode: compact

Mass Actions Style: off

Mass Command Group: Not set

Collection Command Group: Not set

Command Style for Root: off

Show Folder Name: True False Not set

Displayed Properties: rnd:command(command=details_properties_ex_2/style=icon)

Column Header Coloring: Transparent

Number of Rows: 20

Row Spacing: px

Row Spacing Mode: Not set

Row Background Style: standard

Display the result:

6. Choose *User Interface* → *Settings* → *Layout Set*.
7. Filter the list for *howto*.
8. Select *howto_AdminExplorer* and then choose *Preview*.

Result:

The icon is displayed instead of the link.

If you click on the icon, the properties are displayed in a new browser window.

View Folder Selection Go To Search

documents > Public Docum... > Test Folder

	Name	Size	Modified
<input type="checkbox"/>	Document 1	7 Bytes	8/25/04 2:44:56 PM
<input type="checkbox"/>	Document 2	3 Bytes	8/25/04 2:45:13 PM
<input type="checkbox"/>	Document 3	3 Bytes	8/25/04 2:45:30 PM
<input type="checkbox"/>	Document 4	13 Bytes	8/25/04 2:47:04 PM
<input type="checkbox"/>	Document 5	13 Bytes	8/25/04 2:47:30 PM

6.4 Adding an interface command for editing

1. Duplicate the command `edit_online` and enter the path to an image.

UI Commands

	Alias	Bundle File
<input type="checkbox"/>	AppDetails	com.sapportals.wcm.rendering.uicommand.UICConsts
<input type="checkbox"/>	AppEditAnnouncementExplorer	com.sap.netweaver.coll.homer.app.ApplicationProperties
<input type="checkbox"/>	AppEditBulletinBoardExplorer	com.sap.netweaver.coll.homer.app.ApplicationProperties
<input type="checkbox"/>	AppEditContact	com.sap.netweaver.coll.peopleui.impl.contactui.rendering.uicommand
<input type="checkbox"/>	AppEditContactExplorer	com.sap.netweaver.coll.homer.app.ApplicationProperties
<input type="checkbox"/>	AppEditDocumentExplorer	com.sap.netweaver.coll.homer.app.ApplicationProperties
<input type="checkbox"/>	AppEditDownloadExplorer	com.sap.netweaver.coll.homer.app.ApplicationProperties
<input type="checkbox"/>	AppEditFAQExplorer	com.sap.netweaver.coll.homer.app.ApplicationProperties

New Duplicate Edit View Delete

Edit "edit_online_2"

Object remains locked until you click OK or Cancel

Bundle File: com.sapportals.wcm.rendering.uicommand.UICConsts

Command Icon Path: /etc/public/mimes/images/change.gif

Description: Allows you to edit a resource online

Key for Label:

Key for Tooltip:

Mass Command:

Parameters:

Java Class: com.sapportals.wcm.rendering.uicommand.cm.UIEditOnlineCommand

OK Apply Cancel

2. Add the following entry to the collection renderer settings:


```
rnd:command(command=edit_online_2/style=icon),
```

View "howto_AdminCollectionListRenderer"

Description: Collection list renderer for the administrators explorer

Flavor: List

Collection Renderer: CollectionListRenderer

Components:

Base Settings: Not set

Breadcrumb Style: off

Breadcrumb Visibility Style:

Width Adjustment Mode: compact

Height Adjustment Mode: compact

Mass Actions Style: off

Mass Command Group: Not set

Collection Command Group: Not set

Command Style for Root: off

Show Folder Name: True False Not set

Displayed Properties: style=icon, rnd:command(command=edit_online_2/style=icon), contentlength,rnd:

Column Header Coloring: Transparent

Number of Rows: 20

Result:

If you click on the pencil, you can edit text and HTML documents online.

View Folder Selection Go To Search

documents > Public Docum... > Test Folder

documents	Name	Size	Modified
▶ ~system~	<input type="checkbox"/> Document 1	26 Bytes	8/31/04 6:12:00 PM
▶ Discussions	<input type="checkbox"/> Document 2	15 Bytes	8/31/04 6:12:41 PM
▶ Links	<input type="checkbox"/> Document 3	9 Bytes	8/30/04 2:27:04 PM
▶ News	<input type="checkbox"/> Document 4	21 Bytes	8/30/04 2:27:15 PM
▼ Public Documents	<input type="checkbox"/> Document 5	46 Bytes	8/31/04 6:22:55 PM
▶ Test Folder			
▶ QuickPoll			

Appendix

Other How-to guides

How to configure the HTML collection renderer for the KM flexible user interface

How to remove the “Details” link from the search results page

<http://www.sdn.sap.com/irj/sdn/howtoguides>

