SAP NetWeaver
How-To Guide

How To... Integrate Remotely the Content of Forums and Wikis in SAP NetWeaver Systems

Applicable Releases:

- **SAP NetWeaver 7.0**
- **SAP NetWeaver 7.3**

Version 1.0

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Document History

Document Version	Description
1.00	First official release of this guide

Typographic Conventions

Type Style	Description
Example Text	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation
Example text	Emphasized words or phrases in body text, graphic titles, and table titles
`Example text`	File and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
`Example text`	User entry texts. These are words or characters that you enter in the system exactly as they appear in the documentation.
`<Example text>`	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
`EXAMPLE TEXT`	Keys on the keyboard, for example, `F2` or `ENTER`.

Icons

Icon	Description
	Caution
	Important
	Note
	Recommendation or Tip
	Example

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1. Business Scenario

When the customers have for example, the installation of SAP NetWeaver 7.0 including enhancement package 2, but they want to use the features of wiki application and forums application available only for SAP NetWeaver 7.3.

As part of your business scenario, you might need to integrate the forums and wiki content from one SAP NetWeaver system to another SAP NetWeaver system in older release. For example, when you plan to integrate the content from SAP NetWeaver 7.3 to SAP NetWeaver 7.0 including enhancement package 2, but you want to use the forums and wiki content from the system with the newer release. In other cases, you may want to integrate the forums content and the wiki content from one system to another in a different location.

In this guide, we named the old system with a consumer and the new system with a producer.

2. Background Information

To be able to create an integration of content between two systems, you need to create local iViews in the old system that can consume the content located on the remote system.

The content of forums application that can be integrated is the following:

- Category
- Forum
- Thread
- Message
- Settings and properties
- Content hierarchy
- Forum users
- Permissions
- Attachment
- Announcement
- Poll
- Watch

The content of wiki application that can be integrated is the following:

- Space
- Wiki page
- Settings and properties
- Wiki users
- Attachment

The content of forums and wikis that cannot be integrated if you use the URL iViews is the following:

- Portal Search;
- Single Sign On (SSO) – it should describe the prerequisite for the availability of the same users;
- Links and URLs - they are referred to the integrated wikis; for example, the links for the e-mail notifications;
- Language - portal language in SAP NetWeaver Portal 7.0 has no influence on the wiki application in SAP NetWeaver Portal 7.3.

3. Prerequisites

Before you go on, make sure that the following prerequisites are fulfilled:

- The producer and consumer SAP NetWeaver systems have been successfully installed.
  a. The producer system is the system where SAP NetWeaver 7.3 is installed:
     `http://<producer_host>:<producer_port>/irj/portal`
  b. The consumer system is the system where SAP NetWeaver 7.0 including enhancement package 2 is installed:
     `http://<consumer_host>:<consumer_port>/irj/portal`
- The forums and wiki applications have been successfully installed in the producer system.
- The same user management concept is implemented in both systems.
- The KMCUI SCA file is installed in the consumer system and the SCA file is with same version as the consumer system.

4. Integrating Remotely the Content of Forums and Wikis in SAP NetWeaver Systems

To integrate remotely the content of forums and wiki application, you should use the following procedure:

1. Create an active directory which contains the folders with the integrated resources. For more information, see Creating an Active Directory.
2. Setup a trust between the consumer system and the producer system, to redirect to SAP NetWeaver 7.3 remote system. For more information, see Configuring a Trust Between the Producer System and the Consumer System.
3. Create custom Forums iViews and Wiki iViews:
    a. Create Forums-specific portal roles and Wiki-specific portal roles.
    b. Assign the created Forums and Wikis iViews to the created roles for them.
    c. Allow portal users to access the Forums iViews and Wiki iViews.

    The iViews are used to display the content located in the SAP NetWeaver 7.3 remote portals. For more information about the different variants for the creation of iViews and roles, see the following sections in this guide:
    - Creating Custom Forums URL iViews in Consumer System
    - Creating Custom Forums iViews in Consumer System
    - Creating Custom Wiki URL iViews in Consumer System

There are several variants for the remote integration of the forums and wiki content that are described in this guide:

A. Remote integration of the forums content
    - Creating custom Forums URL iViews in the consumer system and allow portal user to access these iViews.
    - Creating custom Forums iViews in the consumer system and allow portal user to access these iViews.

B. Remote integration of the wiki content
    - Creating custom Wiki URL iViews in the consumer system and allow portal user to access these iViews.

5. Creating an Active Directory

Use the following procedure to create three active directories (folders) where the integrated resources should be stored.

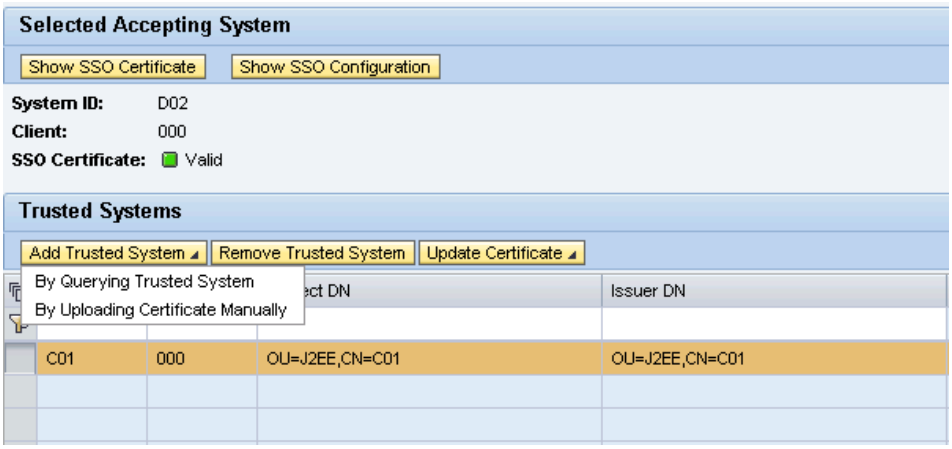
Note that you should do this procedure three times to create three folders.

1. In the portal, choose *Content Administration* → *Portal Content* and from the context menu of *Portal Content* choose New → *Folder*.
2. Specify the following parameters:
   a. *Folder Name* field – three folders should be with the these names: **`Forums URL iView`**, **`Forums iView and Wiki URL iView;`**
   b. *Folder ID Prefix* field;
   c. *Master Language* dropdown list – set the language to *English*.
3. Choose *OK*.

6. Configuring a Trust Between the Producer System and the Consumer System

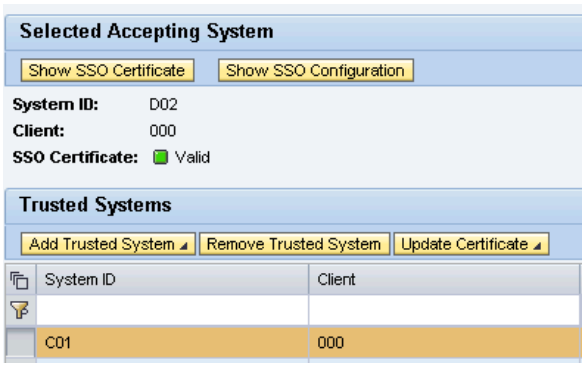
Both systems have to establish trusted relationships between each other. When the calling system is known to the called system as a trusted system, no password has to be supplied.

1. Type the following address in the Internet browser URL field to log on to the producer system: `http://<host>:<port>/sso2`.



2. Choose *Add Trusted System* → *By Querying Trusted System*.
3. Specify the following parameters for the consumer system:
   a. From the *System Type* dropdown list, select *Java*.
   b. From the *Scheme* dropdown list, select *HTTP.*
   c. Enter in the *Host Name* field, a valid host name of the consumer system
   d. Enter in the *Port Number* field, a valid port number of the consumer system
   e. Enter in the *User Name* field, a valid administrator name of the consumer system
   f. Enter in the *Password* field, a valid password of the administrator
4. Save your entries.

As a result, you should have one connection between both systems with a valid certificate as the following one:



7. Creating Custom Forums URL iViews in Consumer System

7.1 Create Custom Forums URL iViews

Note that you have to use this procedure **three** times to create three different Forums URL iViews.

1. In the portal, choose *Content Administration* → *Portal Content*.
2. In the Portal Content Studio, locate the *Forums URL iView* folder (created in the Creating an Active Directory procedure) for your new iView.
3. In the context menu of the target folder, choose *New* → *iView.*
4. Select the *iView template - Create an iView from an existing iView template* radio button and choose *Next*.
5. Select the *URL iView* template and choose *Next*.
6. Specify the *iView Name* property and the *iView ID* property, and then choose *Next*.
   The parameters of the three iViews, which should be created, are the following:

	iView Description	iView Name	iView ID
1	Forum URL iView for providing an **administrator view** (*Admin Console*)	`Forums Administration`	`adminconsole`
2	Forums URL iView for assigning an **initial** forums system **administrator**	`Add Forums Administrator User`	`addadminuser`
3	Forum URL iView for providing a **user view** (*Forums Home* page)	`Forums`	`forums`

7. Choose *Next*.
8. In the *Enter URL* field, specify the following address of the producer system:

	iView Description	URL Address
1	Forum URL iView for providing an **administrator view** (*Admin Console*)	`http://<producer_host>:<producer_port>/irj/portal/forumsadmin?ForumsTarget=forums/admin/index.jsp`
2	Forums URL iView for assigning an **initial** forums system **administrator**	`http://<producer_host>:<producer_port>/forums/admin/secure/servlet/ChangeAdminUserServlet`
3	Forum URL iView for providing a **user view** (*Forums Home* page)	`http://<producer_host>:<producer_port>/irj/portal/forums?ForumsTarget=forums/index.jspa`

9. Choose *Next*.
10. Choose *Finish*.

7.2 Create Custom Forums-Specific Portal Roles

Note that you have to use this procedure **two** times to create two different Forums-specific portal roles.

1. In the portal, choose *Content Administration* → *Portal Content*.
2. In the Portal Content Studio, locate the *Forums URL iView* folder (created in the Creating an Active Directory procedure) for your new role.
3. In the context menu of the target folder, choose *New* → *Role.*
   The parameters of the two roles, which should be created, are the following:

	Role Description	Role Name	Role ID
1	Forum Administration role for providing an access to the *Admin Console*	`Forums Administration`	`forumsadminrole`
2	Forums End-User role for providing an access to the *Forum Home* page	`Forums End-User`	`forumenduserrole`

4. Choose *Next*.
5. Choose *Finish*.
6. Select the *Open the object for editing* radio button.
7. Choose *OK*.
8. To activate the created role, from the *Property* Editor for the *Entry Point* parameter of the role, select *Yes*.

7.3 Assign the Forums URL iViews to Forums-Specific Portal Roles

Use this procedure to make the Forums URL iViews accessible from the portal. You need to assign the three Forums URL iViews (created in the Create Custom Forums URL iViews procedure) to the two Forums-specific portal roles (created in the Create Custom Forums-Specific Portal Roles procedure).

You have to assign the following Forums URL iViews to the following Forums-specific portal roles:

Portal Role	Assigned iViews
Forums Administration	• *Forums Administration* • *Add Forums Administrator User*
Forums End-User	*Forums*

1. In the portal, choose *Content Administration* → *Portal Content*.
2. In the Portal Content Studio, locate the *Forums URL iView* folder (created in the Creating an Active Directory procedure).
3. Select the *Forums Administration* portal role and in the context menu of the role, choose *Open* → *Object*.
4. Select the *Add Forums Administrator User* iView and in the context menu of the iView, choose *Add iView to Role* → *Delta Link*.
5. Select the *Forum Administration* iView and in the context menu of the iView, choose *Add iView to Role* → *Delta Link*.
6. Select the *Forums End-User* portal role and in the context menu of the role, choose *Open* → *Object*.
7. Select the *Forums* iView and in the context menu of the iView, choose *Add iView to Role* → *Delta Link*.

7.4 Allow Portal Users to Access Forums URL iViews

Use this procedure to allow portal users to access Forums URL iViews. You have to assign the two Forums-specific portal roles (created in the Create Custom Forums-Specific Portal Roles procedure) to specific portal users.

For example, forum participants need a portal role that allows access to forums user iView and administrators need a portal role that allows access to forums administration iViews.

The portal roles and the corresponding Forums URL iViews with the user type are the following:

Portal Role	Assigned iViews	User Type
Forums Administration	• *Forums Administration* • *Add Forums Administrator User*	*Administrator*
Forums End-User	*Forums*	

1. In the portal, choose *User Administration* → *User Administration* → *Identity Management*.
2. Choose the user to whom you want to assign the following portal roles: *Forums Administration* and *Forums End-User*.
   You can use the search function with an asterisk (*) to find a user. The user has to be with the *Administrator* type.
3. In the *Details of User <user_name>* screen area, choose *Modify*.
4. Choose the *Assigned Roles* tab, and in the *Available Roles* screen area, search for the *Forums Administrator* portal role. Asterisk (*) is a valid entry. For example, you can search for `*forum*`.
5. Select the *Forums Administration* role and the *Forums End-User* role, and then choose *Add*.
6. Save your entries.

To be displayed the *Forum Administration* role and the *Forums End-User* role in the portal, you have to refresh the entire portal page.

For example, the following screenshots display the result of the created Forums URL iViews in the consumer system:

a. *Forums Administration* role

b. *Forums End-User* role

8. Creating Custom Forums iViews in Consumer System

8.1 Create a Portal System Object

A system allows you to maintain the credentials for a transport.

To create a system, proceed as follows:

1. In the portal, choose Select *System Administration* → *System Configuration* → *System Landscape* → *Portal Content* → *Forums iView* (this folder is created in the Creating an Active Directory procedure).
2. In the context menu of *Forums iView* folder, select *New* → *System (from PAR).*
3. Select the *com.sap.netweaver.coll.forumsPortal* portal archive and then *Next*.
4. Select the *SAPForumsSystem* portal component and then choose *Next*.
   Specify the *System Name* field and the *System ID* field. For example, in the *System Name* field: F**orums Remote System** and in the *System ID* field: **forumremotes**).
5. Choose *Next* and then *Finish*.
6. Select the created system and in the context menu of the system, choose *Open* → *Object*.
7. From the *Property Category* dropdown list, select *Forums System Connection*.
8. Specify the HTTP protocol, the port and the system name of the producer system.
9. Save your entries.

8.1.1 Create a System Alias

1. Select the created system and in the context menu of the system, choose *Open* → *Object*.
2. From the *Display* dropdown list, select *System Aliases*.
3. In the *Alias Name* field, specify the new alias. For examle, **FORUMS**.
4. Choose *Add*.
5. Save your entries.

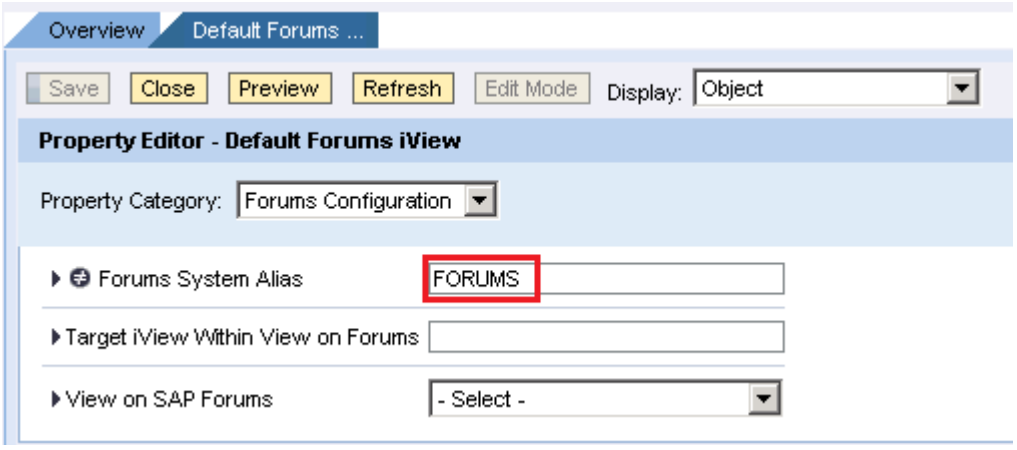
8.2 Create Custom Forums iViews

8.2.1 Create a Default iView template

This iView should be used as a template for the other three iViews for forums that should be created in the next 8.2.2 procedure.

1. In the portal, choose *Content Administration* → *Portal Content*.
2. In the Portal Content Studio, locate the *Forums iView* folder (created in the Creating an Active Directory procedure) for your new iView.
3. In the context menu of the target folder, choose *New* → *iView.*
4. Select the *iView template - Create an iView from an existing iView template* radio button and choose *Next*.
5. Select the *Collaboration Forums iView* template and choose *Next*.
6. Specify the *Name* property and the *iView ID* property (for example, the **Default Forums iView** name and **defaultforums** iview ID), and then choose *Next*.
7. Choose *Finish*.

8. Select the created iView and in the context menu of the iView, choose *Open* → *Object*.
9. From the *Property Category* dropdown list, select *Forums Configuration*.
10. In the *Forums System Alias* field, enter the alias that is created in the Create a System Alias procedure.



11. From the *Property Category* dropdown list, select *Show all*.
12. In the *Object is a Template* property, select *Yes*.
13. Save your entries.

8.2.2 Create Three Forums iViews

Note that you have to use this procedure **three** times to create three different Forums iViews.

1. In the portal, choose *Content Administration* → *Portal Content*.
2. In the Portal Content Studio, locate the *Forums iView* folder (created in the Creating an Active Directory procedure) for your new iView.
3. In the context menu of the target folder, choose *New* → *iView.*
4. Select the *iView template - Create an iView from an existing iView template* radio button and choose *Next*.
5. Select the *Default iView* template (created in the Create a Default iView template procedure) and choose *Next*.
6. Specify the *iView Name* property and the *iView ID* property, and then choose *Next*.
   The parameters of the three iViews, which should be created, are the following:

	iView Description	iView Name	iView ID
1	Forum iView for providing an **administrator view** (*Admin Console*)	`Forums Administration`	`adminconsole`
2	Forums iView for assigning an **initial** forums system **administrator**	`Add Forums Administrator User`	`addadminuser`
3	Forum iView for providing a **user view** (*Forum Home* page)	`Forums`	`forums`

7. Choose *Next*.
8. Choose *Finish*.

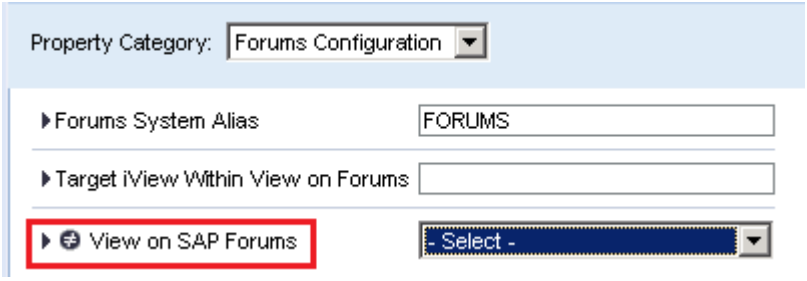
8.2.3 Configure the Created Forums iViews

Note that you have to use this procedure **three** times to configure each of the Forums iViews.

1. Select the each of the created iViews and in the context menu of the iViews, choose *Open* → *Object*.

	iView Description	iView Name
1	Forum iView for providing an **administrator view**	`Forums Administration`
2	Forums iView for assigning an **initial** forums system **administrator**	`Add Forums Administrator User`
3	Forum iView for providing a **user view**	`Forums`

2. From the *Property Category* dropdown list, select *Forums Configuration*.



3. From the *View on SAP Forums* dropdown list, select three different parameter for each of the created Forums iViews:

	iView Description	iView Name	View on SAP Forums Parameter
1	Forum iView for providing an **administrator view**	`Forums Administration`	`Forums Administration`
2	Forums iView for assigning an **initial** forums system **administrator**	`Add Forums Administrator User`	`Add Forums Administrator User`
3	Forum iView for providing a **user view**	`Forums`	`Forums`

4. Save your entries.

8.3 Create Custom Forums-Specific Portal Roles

Note that you have to use this procedure **two** times to create two different Forums-specific portal roles.

1. In the portal, choose *Content Administration* → *Portal Content*.
2. In the Portal Content Studio, locate the *Forums iView* folder (created in the Creating an Active Directory procedure) for your new role.
3. In the context menu of the target folder, choose *New* → *Role.*
   The parameters of the two roles, which should be created, are the following:

	Role Description	Role Name	Role ID
1	Forum Administration role for providing an access to the *Admin Console*	`Forums Administration`	`forumsadminrole`
2	Forums End-User role for providing an access to the *Forum Home* page	`Forums End-User`	`forumenduserrole`

4. Choose *Next*.
5. Choose *Finish*.
6. Select the *Open the object for editing* radio button.
7. Choose *OK*.
8. To activate the created role, from the *Property* Editor for the *Entry Point* parameter of the role, select *Yes*.

8.4 Assign the Forums iViews to Forums-Specific Portal Roles

Use this procedure to make the Forums iViews accessible from the portal. You need to assign the three Forums iViews (created in the Create Custom Forums iViews procedure) to the two Forums-specific portal roles (created in the Create Custom Forums-Specific Portal Roles procedure).

You have to assign the following Forums iViews to the following Forums-specific portal roles:

Portal Role	Assigned iViews
Forums Administration	• *Forums Administration* • *Add Forums Administrator User*
Forums End-User	*Forums*

1. In the portal, choose *Content Administration* → *Portal Content*.
2. In the Portal Content Studio, locate the *Forums iView* folder (created in the Creating an Active Directory procedure).
3. Select the *Forums Administration* portal role and in the context menu of the role, choose *Open* → *Object*.
4. Select the *Add Forums Administrator User* iView and in the context menu of the iView, choose *Add iView to Role* → *Delta Link*.
5. Select the *Forum Administration* iView and in the context menu of the iView, choose *Add iView to Role* → *Delta Link*.
6. Select the *Forums End-User* portal role and in the context menu of the role, choose *Open* → *Object*.
7. Select the *Forums* iView and in the context menu of the iView, choose *Add iView to Role* → *Delta Link*.

8.5 Allow Portal Users to Access Forums iViews

Use this procedure to allow portal users to access Forums iViews. You have to assign the two Forums-specific portal roles (created in the Create Custom Forums-Specific Portal Roles procedure) to specific portal users.

For example, forum participants need a portal role that allows access to forums user iViews and administrators need a portal role that allows access to Forums administration iViews.

The portal roles and the corresponding Forums URL iViews with the user type are the following:

Portal Role	Assigned iViews	User Type
Forums Administration	• *Forums Administration* • *Add Forums Administrator User*	*Administrator*
Forums End-User	*Forums*	

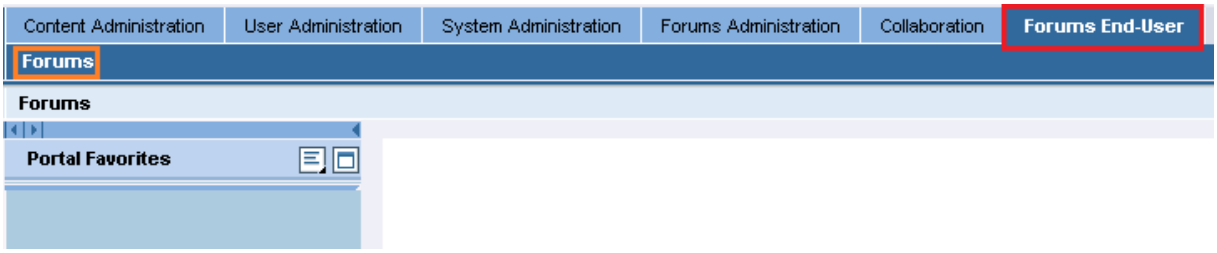
1. In the portal, choose *User Administration* → *User Administration* → *Identity Management*.
2. Choose the user to whom you want to assign the following portal roles: *Forums Administration* and *Forums End-User*.
   You can use the search function with an asterisk (*) to find a user. The user has to be with the *Administrator* type.
3. In the *Details of User <user_name>* screen area, choose *Modify*.
4. Choose the *Assigned Roles* tab, and in the *Available Roles* screen area, search for the *Forums Administrator* portal role. Asterisk (*) is a valid entry. For example, you can search for `*forum*`.
5. Select the *Forums Administration* role and the *Forums End-User* role, and then choose *Add*.
6. Save your entries.

To be displayed the *Forum Administration* role and the *Forums End-User* role in the portal, you have to refresh the entire portal page.

For example, the following screenshots display the result of the created Forums iViews in the consumer system:

a. *Forums Administration* role

b. *Forums End-User* role



9. Creating Custom Wiki URL iViews in Consumer System

9.1 Create Custom Wiki URL iViews

Note that you have to use this procedure **three** times to create three different Forums URL iViews.

1. In the portal, choose *Content Administration* → *Portal Content*.
2. In the Portal Content Studio, locate the *Wiki URL iView* folder (created in the Creating an Active Directory procedure) for your new iView.
3. In the context menu of the target folder, choose *New* → *iView.*
4. Select the *iView template - Create an iView from an existing iView template* radio button and choose *Next*.
5. Select the *URL iView* template and choose *Next*.
6. Specify the *iView Name* property and the *iView ID* property, and then choose *Next*.
   The parameters of the three iViews, which should be created, are the following:

	iView Description	**iView Name**	**iView ID**
1	Wiki iView for providing an **administrator view** (wiki administration console)	`Wiki Administration`	`adminconsole`
2	Wiki iView for assigning an **initial** wiki **system administrator**	`Add Wiki Administrator User`	`addadminuser`
3	Wiki iView for providing a **user view**	`Wiki`	`spaces`

7. Choose *Next*.
8. In the *Enter URL* field, specify the following address of the producer system:

	iView Description	**URL Address**
1	Wiki iView for providing an **administrator view**	`http://<producer_host>:<producer_port>/wiki/admin/system-info.jsp?rootSpace=`
2	Wiki iView for assigning an **initial** wiki **system administrator**	`http://<producer_host>:<producer_port>/wiki/admin/secure/servlet/ChangeAdminUserServlet?rootSpace=`
3	Wiki iView for providing a **user view**	`http://<producer_host>:<producer_port>/wiki/index.jspa?rootSpace=`

9. Choose *Next*.
10. Choose *Finish*.

9.2 Create Custom Wiki-Specific Portal Roles

Note that you have to use this procedure **two** times to create two different Wiki-specific portal roles.

1. In the portal, choose *Content Administration* → *Portal Content*.
2. In the Portal Content Studio, locate the *Wiki URL iView* folder (created in the Creating an Active Directory procedure) for your new role.
3. In the context menu of the target folder, choose *New* → *Role.*
   The parameters of the two roles, which should be created, are the following:

	Role Description	Role Name	Role ID
1	Wiki Administration role for providing an access to the *Admin Console*	`Wiki Administration`	`wikiadminrole`
2	Wiki End-User role for providing an access to the wiki home page	`Wiki End-User`	`wikienduserrole`

4. Choose *Next*.
5. Choose *Finish*.
6. Select the *Open the object for editing* radio button.
7. Choose *OK*.
8. To activate the created role, from the *Property* Editor for the *Entry Point* parameter of the role, select *Yes*.

9.3 Assign the Wiki URL iViews to Wiki-Specific Portal Roles

Use this procedure to make the Wiki URL iViews accessible from the portal. You need to assign the three Wiki URL iViews (created in the Create Custom Wiki URL iViews procedure) to the two Forums-specific portal roles (created in the Create Custom Wiki-Specific Portal Roles procedure).
You have to assign the following Wiki URL iViews to the following Wiki-specific portal roles:

Portal Role	Assigned iViews
Wiki Administration	• *Wiki Administration* • *Add Wiki Administrator User*
Wiki End-User	*Wiki*

1. In the portal, choose *Content Administration* → *Portal Content*.
2. In the Portal Content Studio, locate the *Forums URL iView* folder (created in the Creating an Active Directory procedure).
3. Select the *Wiki Administration* portal role and in the context menu of the role, choose *Open* → *Object*.
4. Select the *Add Wiki Administrator User* iView and in the context menu of the iView, choose *Add iView to Role* → *Delta Link*.
5. Select the *Wiki Administration* iView and in the context menu of the iView, choose *Add iView to Role* → *Delta Link*.
6. Select the *Wiki End-User* portal role and in the context menu of the role, choose *Open* → *Object*.
7. Select the *Wiki* iView and in the context menu of the iView, choose *Add iView to Role* → *Delta Link*.

9.4 Allow Portal Users to Access Wiki URL iViews

Use this procedure to allow portal users to access Wiki URL iViews. You have to assign the two Wiki-specific portal roles (created in the Create Custom Wiki-Specific Portal Roles procedure) to specific portal users.

For example, wiki participants need a portal role that allows access to wiki user iView and administrators need a portal role that allows access to wiki administration iViews.

The portal roles and the corresponding Wiki URL iViews with the user type are the following:

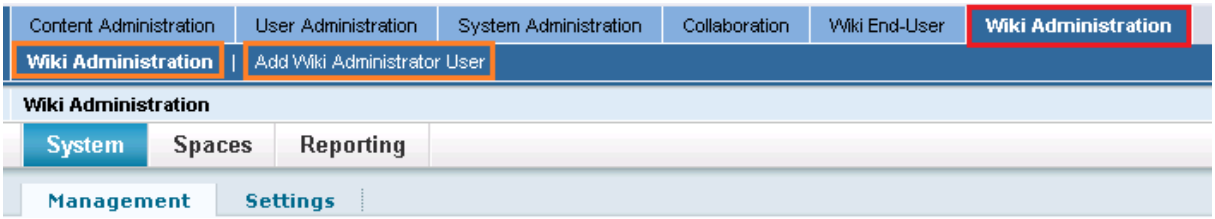
Portal Role	Assigned iViews	User Type
Wiki Administration	• *Wiki Administration* • *Add Wiki Administrator User*	*Administrator*
Wiki End-User	*Wiki*	

7. In the portal, choose *User Administration* → *User Administration* → *Identity Management*.
8. Choose the user to whom you want to assign the following portal roles: *Wiki Administration* and *Wiki End-User*.
   You can use the search function with an asterisk (*) to find a user. The user has to be with the *Administrator* type.
9. In the *Details of User <user_name>* screen area, choose *Modify*.
10. Choose the *Assigned Roles* tab, and in the *Available Roles* screen area, search for the *Wiki Administrator* portal role. Asterisk (*) is a valid entry. For example, you can search for `*wiki*`.
11. Select the *Wiki Administration* role and the *Forums End-User* role, and then choose *Add*.
12. Save your entries.

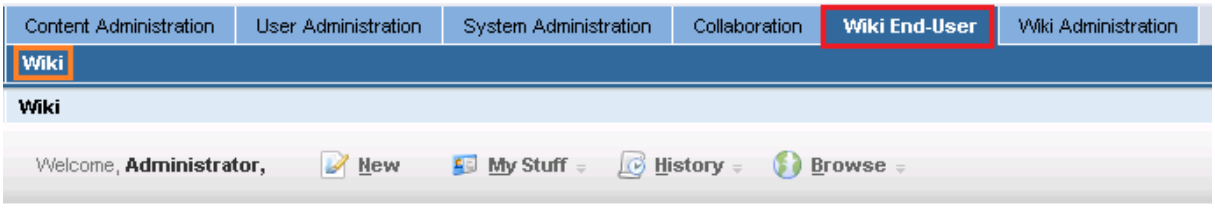
To be displayed the *Wiki Administration* role and the *Wiki End-User* role in the portal, you have to refresh the entire portal page.

For example, the following screenshots display the result of the created Wiki URL iViews in the consumer system:

a. *Wiki Administration* role



b. *Wiki* role



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