

How-to Guide  
SAP xPD 1.0



# How To... Connect Multiple SAP xPD Systems to a Single SAP EP

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Applicable Releases:  
SAP xPD 1.0  
SAP EP 6.0 SP2

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<b>1</b>	<b>Scenario.....</b>	<b>5</b>
<b>2</b>	<b>Introduction.....</b>	<b>5</b>
<b>3</b>	<b>Step By Step Solution .....</b>	<b>6</b>
3.1	<b>Create New SAP CAF Configuration Settings in SAP EP .....</b>	<b>6</b>
3.2	<b>Change SAP xPD Web AS Settings.....</b>	<b>13</b>
3.3	<b>Duplicate SAP xPD Business Package in SAP EP .....</b>	<b>16</b>

# 1 Scenario

You want to connect multiple SAP xApp Product Definition (SAP xPD) 1.0 systems to a single SAP Enterprise Portal (SAP EP).

## 2 Introduction

SAP xPD stores attachments in SAP Knowledge Management and Collaboration (SAP KMC), which is part of SAP EP. SAP xPD also exposes its data (including attachments) in SAP KMC, so that it can be indexed and searched by SAP Search and Classification (SAP TREX). All this is done via the SAP Composite Application Framework (SAP CAF) layer of SAP xPD. When you are configuring SAP EP for use with SAP xPD, you are actually configuring SAP CAF.



There is only one instance of SAP CAF on any one SAP EP system.

The SAP xPD 1.0 standard delivery system uses generic settings in SAP CAF. These settings work only when one SAP xPD system is connected to one SAP EP. This document explains how to configure your SAP EP system for use by multiple SAP xPD instances.



The document assumes that you have completed all installation and configuration steps for SAP xPD.



If you are running SAP xPD 1.0 SP4 or lower, you see fewer parameters for CAF security manager and CAF repository manager (as shown in this document), so you can ignore the extra ones in this document.



If you want to connect SAP xPD to an SAP EP system running other SAP and non-SAP applications that are built with the same version of SAP CAF (Release 0.9) as SAP xPD, you can also use the method described in this document.

### 3 Step By Step Solution



You must perform these steps on the SAP xPD Web AS system and on the SAP EP system.

#### 3.1 Create New SAP CAF Configuration Settings in SAP EP

Repeat these steps for each SAP xPD system you want to connect to the SAP EP system.

1. Log on to SAP EP with a user that has the System Administration or Super Administration portal role and choose *System Administration* → *System Configuration* → *Knowledge Management* → *Configuration* → *Repository Managers* → *Security Manager* → *CAF Security Manager*.

The screenshot shows the SAP xPD System Configuration interface. The breadcrumb trail is: *System Administration* > *System Configuration* > *Knowledge Management* > *Configuration* > *Repository Managers* > *Security Manager* > *CAF Security Manager*. The main content area displays a list of security manager classes. The 'CAF Security Manager' class is highlighted, and a tooltip indicates it 'Restricts access to repositories based on permissions administered by the CAF Authorization View'. The 'You are here' path is also visible, showing the navigation from Configuration to Content Management, Repository Managers, and Security Manager.

2. Select *CAFSecurityManager* by placing a check mark beside it and choose *Duplicate*.

This creates a new CAF security manager based on the SAP xPD standard delivered definition.

The screenshot shows the 'CAF Security Manager' configuration dialog box. It contains a table with the following data:

Name	List of users with full access
<input checked="" type="checkbox"/> <a href="#">CAFSecurityManager</a>	index_service;cmadmin_service;subscription_service;collaboration_service

Below the table are buttons for 'New', 'Duplicate', 'Edit', 'View', and 'Delete'. The 'Duplicate' button is highlighted. Below the buttons is a section titled 'View "CAFSecurityManager"' with the following configuration details:

- List of users with full access \*
- List of visible business objects \*
- URL of CAF webservice \*
- Permission Rendering Class \*

At the bottom are 'Edit' and 'Close' buttons.

3. Make the following changes:

- In the *Name* field, enter a name (for example, `xPD_Security_Manager`).

Make sure there are no spaces in the name.

- In the *URL of CAF webservice* field, enter a URL with the format

`http://<xPD_Host>:<xPD_Port>/CAFDataService/Config?style=rpc_enc`

where:

- `<xPD_Host>` is the fully qualified SAP xPD host name
- `<xPD_Port>` is the SAP xPD host TCP/IP port number (default is 50000)

When you have finished, choose *OK*. The system then tells you that the changes require the servlet engine to be restarted, but you don't have to do this right away; you can wait until the end of the next step.

The CAF security manager is used to restrict access to KM repositories based on the permissions that are administered by xApps based on the CAF.

**CAF Security Manager** Creating and deleting configuration objects requires that you restart the servlet engine.

Name	List of users with full access
<input type="checkbox"/> CAFSecurityManager	index_service;cmadmin_service;subscription_service;collaboration_service sap.com

New Duplicate Edit View Delete

**New "CAF Security Manager"**

Name \*

List of users with full access \*

List of visible business objects \*

URL of CAF webservice \*

Permission Rendering Class \*

OK Cancel

4. In the KM Configuration navigation panel, click the *Repository Managers* link and then the *CAF Repository* link.

**KM Configuration**

Actions

**You are here:**  
[Configuration](#)  
[Content Management](#)  
[Repository Managers](#)

**Folders**  
[HTML Property Extractors](#)  
[Lotus Notes Display Name Definitions](#)  
[Reports](#)  
[Security Manager](#)  
[Web Sites](#)

**Classes**  
[CAF Repository \(1\)](#)  
[Calendar Repository \(1\)](#)  
[CM Repository \(17\)](#)  
[Content Exchange Repository \(1\)](#)

Different types of repository managers provide access to different types of data sources, for example, on file systems or on WebDAV servers. Repository managers also differ in the functions they support.

**Folders**  
[HTML Property Extractors](#) Properties to extract from content in Web repositories  
[Lotus Notes Display Name Definitions](#) Display name definitions for Lotus Notes repositories  
[Reports](#) Reports available through the Reporting Repository Manager  
[Security Manager](#) Security manager for repositories  
[Web Sites](#) Web sites accessed by web repository managers

**Classes**  
[CAF Repository](#) Reads data of business objects that are used by xApps based on the CAF  
[Calendar Repository](#) Provides read and write access to meetings, appointments, and so on, on different groupware servers.

- Select *caf* by placing a check mark beside it and choose *Duplicate*.

This creates a new CAF repository manager based on the SAP xPD standard delivered definition.

The CAF repository manager is used to make the data of business objects that are used by xApps based on the Composite Application Framework (CAF) available in the portal and KM

**CAF Repository** Deleting configuration objects requires that you restart the servlet engine

Name	Description	List of templates that are used in display name generation	Prefix	URL of CAF webservice
<input checked="" type="checkbox"/> <a href="#">caf</a>	CAF Repository	sap.com/xapps.xpd/Idea=Idea <id>;sap.com/xapps.xpd/Concept=Concept <title>	/caf	http://801382c.pal.sap.corp:51000/CAFDataService/Config?

New Duplicate Edit View Delete

**View "caf"**

Description

List of templates that are used in display name generation

Prefix (must start with /)

URL of CAF webservice

URL to the CAF object editor

User that is used to indexing

Windows Landscape System

editable\_objects

Active

Hide in Root Folder

Send Events

Property Search Manager

Repository Services

Name
<a href="#">discussion</a>
<a href="#">discussion_secure</a>
<a href="#">discussion_simple</a>
<a href="#">properties</a>
<a href="#">subscription</a>
<a href="#">subscription_collaboration</a>

Page 1 / 1

ACL Manager Cache

Security Manager

Lock Manager

Versioning Manager

Edit Close



6. Make the following changes:

- In the *Name* field, enter a name (for example, `caf_xPD`).

Make sure there are no spaces in the name.

- In the *Description* field, enter a description.
- In the *Prefix (must start with /)* field, enter a prefix (for example, `/caf_xPD`).

Make sure there are no spaces in the name and that it starts with a slash.

- In the *URL of CAF webservice* field, enter a URL with the format

```
http://<xPD_Host>:<xPD_Port>/CAFDataService/Config?style=rpc_enc
```

where

- `<xPD_Host>` is the fully qualified SAP xPD host name
  - `<xPD_Port>` is the SAP xPD host TCP/IP port number (default is 50000)
- In the *URL to the CAF object editor* field, enter a URL with the format

```
http://<xPD_Host>:<xPD_Port>/webdynpro/dispatcher/sap.com/caf~UI~  
ptn~objecteditor/ObjectEditor?app.parameter1=<guid>&app.parameter  
2=E&app.configName=<configuration>
```

where

- `<xPD_Host>` is the fully qualified SAP xPD host name
  - `<xPD_Port>` is the SAP xPD host TCP/IP port number (default is 50000)
- In the *User that is used to indexing* field, enter `index_service`
  - Leave the *Windows Landscape System* field blank.
  - In the *editable\_objects* field, enter

```
sap.com/xapps.xpd/Idea=ie;sap.com/xapps.xpd/Concept=ce
```

- If your UI configuration name for the idea editor is not `ie`, replace `ie` with your own idea editor configuration name
  - If your UI configuration name for the concept editor is not `ce`, replace `ce` with your own concept editor configuration name
- In the *Security Manager* field, enter the name of the CAF security manager you created above (for example, `xPD_Security_Manager`).

When you have finished, choose *OK*. The system then tells you that the changes require the servlet engine to be restarted, but you don't have to do this right away; you can wait until the end of the next step.

The CAF repository manager is used to make the data of business objects that are used by xApps based on the Composite Application Framework (CAF) available

**CAF Repository** Deleting configuration objects requires that you restart the servlet engine

Name	Description	List of templates that are used in display name generation	Prefix	URL of CAF we
<input type="checkbox"/> caf	CAF Repository	sap.com/xapps.xpd/Idea=Idea <id>;sap.com/xapps.xpd/Concept=Concept <title>	/caf	http://801382c.pal.sap.corp:51000/CAF

New Duplicate Edit View Delete

**New "CAF Repository"**

Name \*

Description

List of templates that are used in display name generation

Prefix (must start with /) \*

URL of CAF webservice \*

URL to the CAF object editor \*

User that is used to indexing \*

Windows Landscape System

editable\_objects \*

Active

Hide in Root Folder

Send Events

Property Search Manager

Repository Services

Name
<input type="checkbox"/> RepositoryAttachmentService
<input type="checkbox"/> accessstatistic
<input type="checkbox"/> comment
<input checked="" type="checkbox"/> discussion
<input checked="" type="checkbox"/> discussion_secure
<input checked="" type="checkbox"/> discussion_simple
<input type="checkbox"/> feedback
<input type="checkbox"/> layout

Page 1 / 3

ACL Manager Cache

Security Manager

Lock Manager

Versioning Manager

OK Apply Cancel

7. In the KM Configuration navigation panel, click the *CM Repository* link.

**KM Configuration**

Actions

**You are here:**  
 Configuration  
 Content Management  
 Repository Managers

**Folders**  
 HTML\_Property  
 Extractors  
 Lotus Notes Display  
 Name Definitions  
 Reports  
 Security Manager  
 Web Sites

**Classes**  
 CAF Repository (2)  
 Calendar Repository (1)  
 CM Repository (7)  
 Content Exchange  
 Repository (1)

"caf\_xPD" has been saved and activated

The CAF repository manager is used to make the data of business objects that are used by xApps based on the Composite Application Framework (CAF) available

**CAF Repository** Deleting configuration objects requires that you restart the servlet engine

Name	Description	List of templates that are used in display name generation	Prefix	URL of CAF we
<input type="checkbox"/> caf	CAF Repository	sap.com/xapps.xpd/Idea=Idea <id>;sap.com/xapps.xpd/Concept=Concept <title>	/caf	http://801382c.pal.sap.
<input type="checkbox"/> caf_xPD	xPD Repository	sap.com/xapps.xpd/Idea=Idea <id>;sap.com/xapps.xpd/Concept=Concept <title>	/caf_xPD	http://801382c.pal.sap.

New Duplicate Edit View Delete

8. Select *document\_xapps* by placing a check mark beside it and choose *Duplicate*.

This creates a new CM repository based on the SAP xPD standard delivered repository definition. This is where attachments are stored.

A CM repository manager stores documents and folders in the filesystem or in the database, depending on its persistence mode. It stores documents and folders in the filesystem or in the database, depending on its persistence mode. It stores documents and folders in the filesystem or in the database, depending on its persistence mode.

**CM Repository** Deleting configuration objects requires that you restart the servlet engine

Filter

	Name	Description	Prefix	Repository ID in Database
<input type="checkbox"/>	<a href="#">attachment</a>		/attachment	attachment
<input type="checkbox"/>	<a href="#">collaboration</a>		/collaboration	collaboration
<input type="checkbox"/>	<a href="#">collaboration_sessions</a>	Repository to store SCF sessions	/collaboration_sessions	collaboration_sessions
<input type="checkbox"/>	<a href="#">discussiongroups</a>		/discussiongroups	discussiongroups
<input type="checkbox"/>	<a href="#">documents</a>		/documents	documents
<input checked="" type="checkbox"/>	<a href="#">documents_xapps</a>	xApps Attachment Repository - ACL	/documents_xapps	documents_xapps
<input type="checkbox"/>	<a href="#">documents_xapps_caf_security_manager</a>	xApps Attachment Repository - CAF	/documents_xapps_csm	documents_xapps_csm
<input type="checkbox"/>	<a href="#">grouphome</a>		/grouphome	grouphome

New Duplicate Edit View Delete

9. Make the following changes:

- In the *Name* field, enter a name (for example, *documents\_xPD*).

Make sure there are no spaces in the name.

- In the *Description* field, enter a description.
- In the *Prefix (must start with /)* field, enter a prefix (for example, */documents\_xPD*).

Make sure there are no spaces in the name and it starts with a slash.

- In the *Repository ID in Database* field, enter a repository ID (for example, *documents\_xPD*).

Make sure there are no spaces in the name.

- In the *Security Manager* field, enter the name of the CAF security manager you created above (for example, *xPD\_Security\_Manager*).

When you have finished, choose *OK*. The system then tells you that the changes require the servlet engine to be restarted, so restart your portal Web AS engine.

**Duplicate "documents\_xapps"**

Name \*

Description

Prefix (must start with /) \*

Repository ID in Database \*

Root Directory

Root Directory for Versions

Windows Landscape System

Active

Auto Versioning  True  False  Not set

Hide in Root Folder

Internal Links Default To Dynamic

Preserve Version Histories

Send Events

Persistence Mode \*

Property Search Manager

Compress content greater than  bytes

Repository Services

	Name
<input type="checkbox"/>	<a href="#">RepositoryAttachmentService</a>
<input checked="" type="checkbox"/>	<a href="#">accessstatistic</a>
<input checked="" type="checkbox"/>	<a href="#">comment</a>
<input checked="" type="checkbox"/>	<a href="#">discussion</a>
<input type="checkbox"/>	<a href="#">discussion_secure</a>
<input type="checkbox"/>	<a href="#">discussion_simple</a>
<input checked="" type="checkbox"/>	<a href="#">feedback</a>
<input checked="" type="checkbox"/>	<a href="#">layout</a>

Page 1 / 3

ACL Manager Cache

Cache

Cache for small content (<32KB)

Connection Pool \*

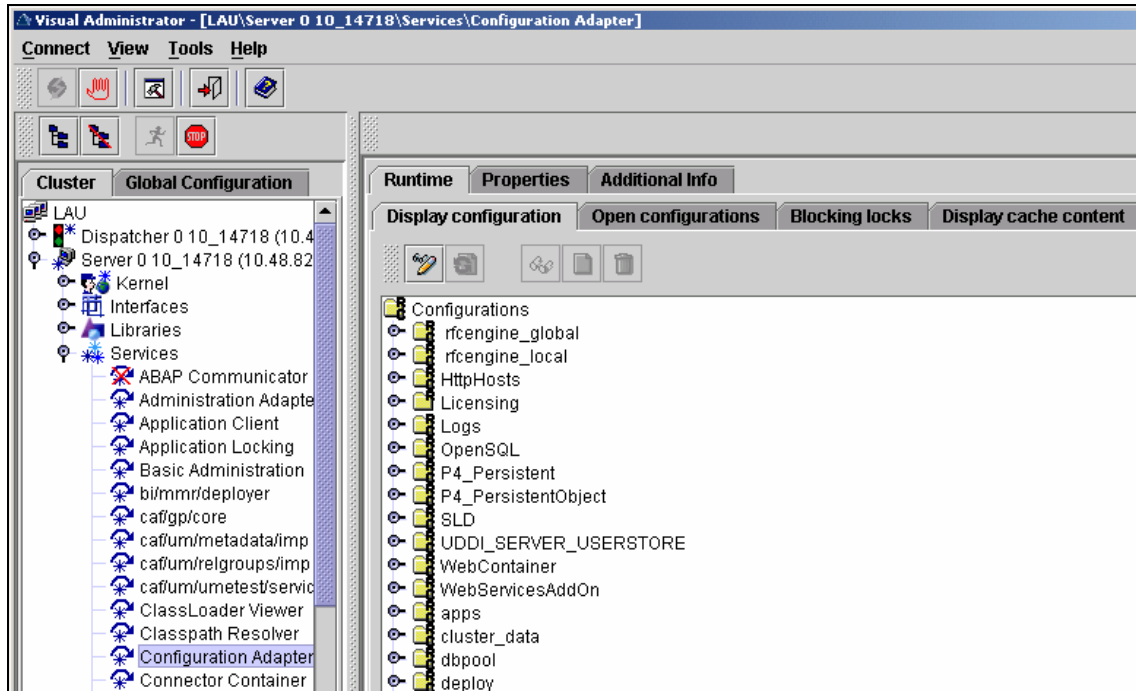
Security Manager

OK Apply Cancel

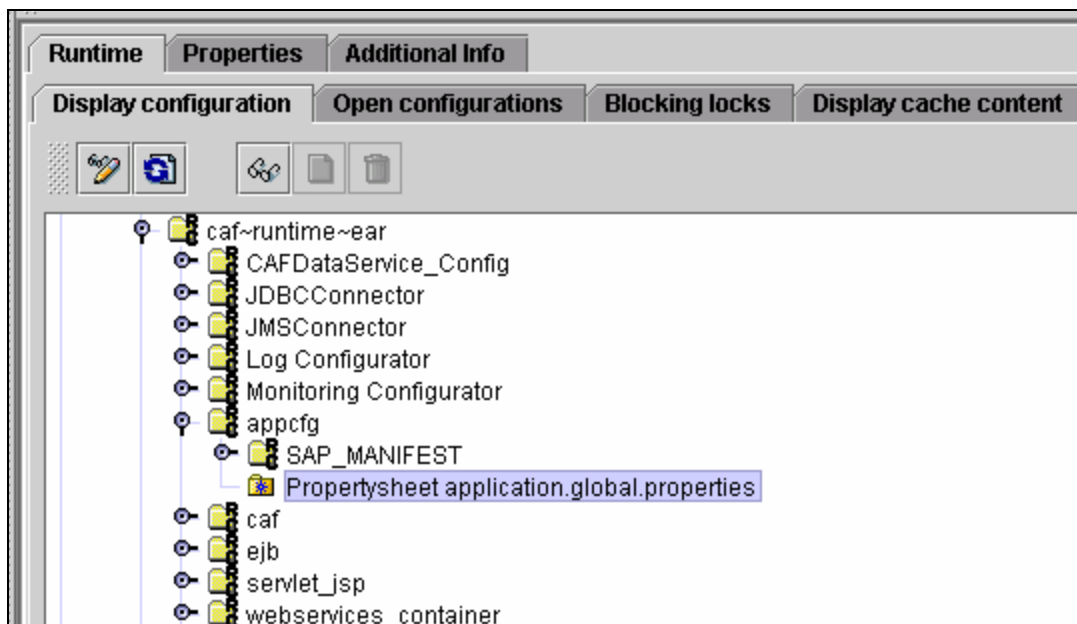
### 3.2 Change SAP xPD Web AS Settings

Perform these steps for each SAP xPD system that should connect to the SAP EP system you configured above.

1. Start the SAP xPD Web AS Visual Administration Tool and log on as the administrator. Then, on the left panel, navigate to: *Cluster* → *<SID>* → *Server 0* → *Services* → *Configuration Adapter*.



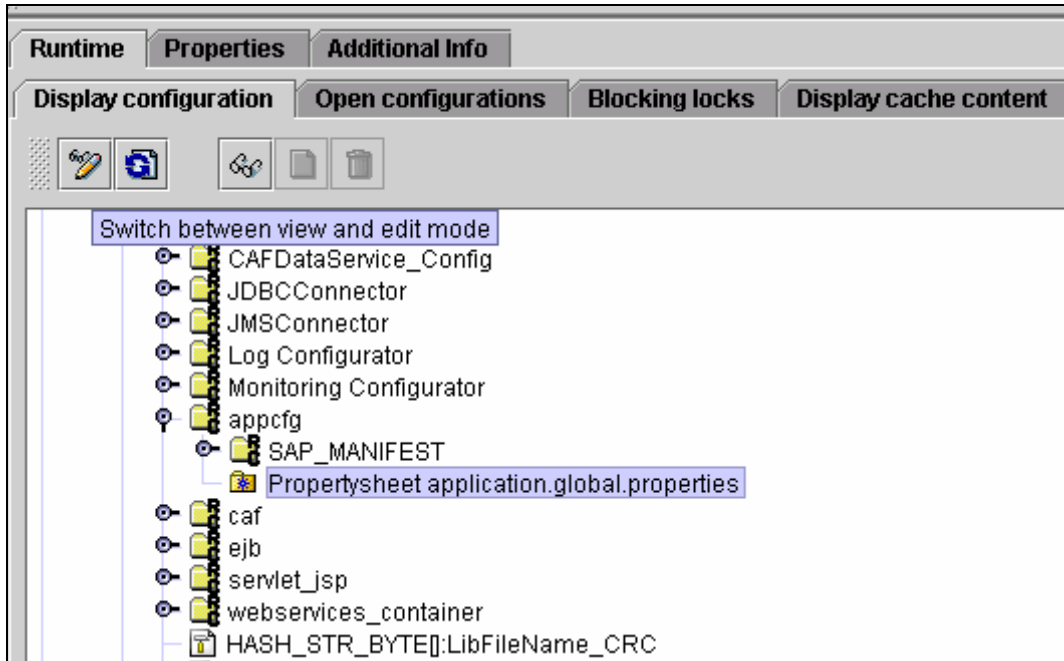
2. On the right panel, navigate to: *Display configuration* → *Configurations* → *apps* → *sap.com* → *caf-runtime~ear* → *appcfg* → *Property sheet application.global.properties*.




3. Enable property editing.

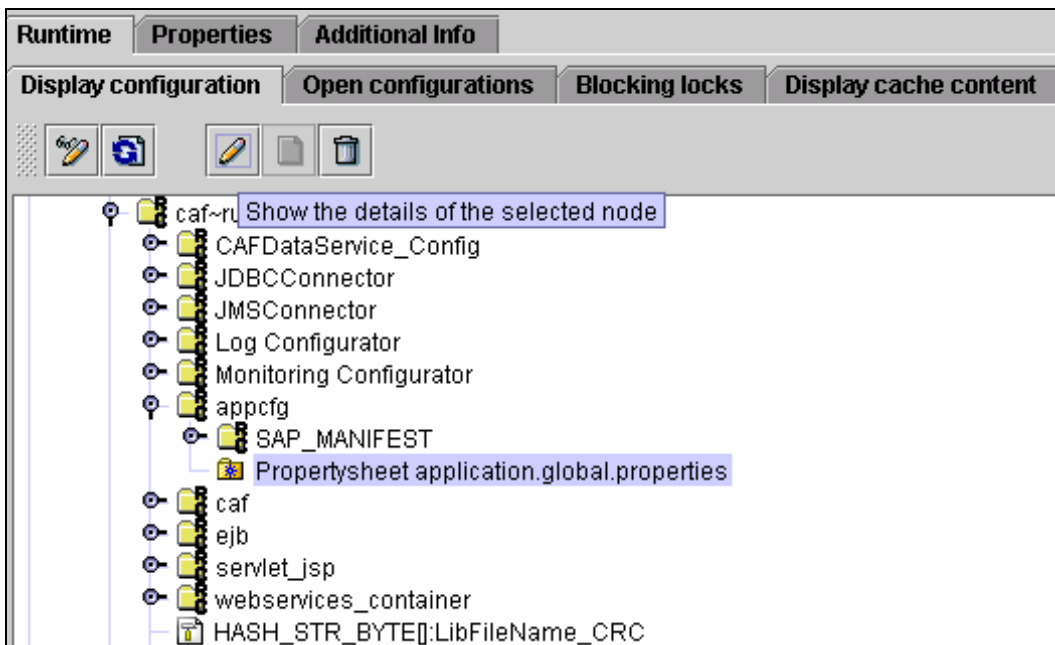
To do this, choose *Switch between view and edit mode* .

This is the first button below the *Display configuration* tab name.



4. With *Property sheet application.global.properties* selected, choose *Show the details of the selected node* .

This is the third button below the *Display configuration* tab name.



5. Edit the property `KM_REPOSITORY` by clicking on it.

<code>KM_PREVIEW_URL</code>	<code>http://km_host:km_port/ir</code>
<code>KM_REPOSITORY</code>	<code>/caf</code>
<code>KM_TMP_REPOSITORY_FOLDER</code>	<code>/documents_xapps</code>
<code>NOTIF_USE_DEPLOYED_SUBSCR</code>	<code>false</code>
<code>PUBLISH_ENABLED</code>	<code>true</code>
<code>SEARCH_FUZZINESS</code>	<code>0.7</code>

6. Enter the new CAF repository you created above in the *Custom* field (for example, `/caf_xPD`). Then, choose *Apply custom*.

**Change property entry**

**Description:**

**Name:**

**Datatype:**

**Default:**

**Custom:**

7. Edit the property `KM_TMP_REPOSITORY_FOLDER` by clicking on it.

This is the folder where attachments are stored.

<code>KM_PREVIEW_URL</code>	<code>http://km_host:km_port/ir</code>
<code>KM_REPOSITORY</code>	<code>/caf</code>
<code>KM_TMP_REPOSITORY_FOLDER</code>	<code>/documents_xapps</code>
<code>NOTIF_USE_DEPLOYED_SUBSCR</code>	<code>false</code>
<code>PUBLISH_ENABLED</code>	<code>true</code>
<code>SEARCH_FUZZINESS</code>	<code>0.7</code>

8. Enter the new CM repository you created above in the *Custom* field (for example, /documents\_xPD). Then, choose *Apply custom*.

The screenshot shows a dialog box titled "Change property entry". It contains the following fields and values:

- Description:** (empty)
- Name:** KM\_TMP\_REPOSITORY\_FOLDER
- Datatype:** java.lang.String
- Default:** /documents\_xapps
- Custom:** /documents\_xPD

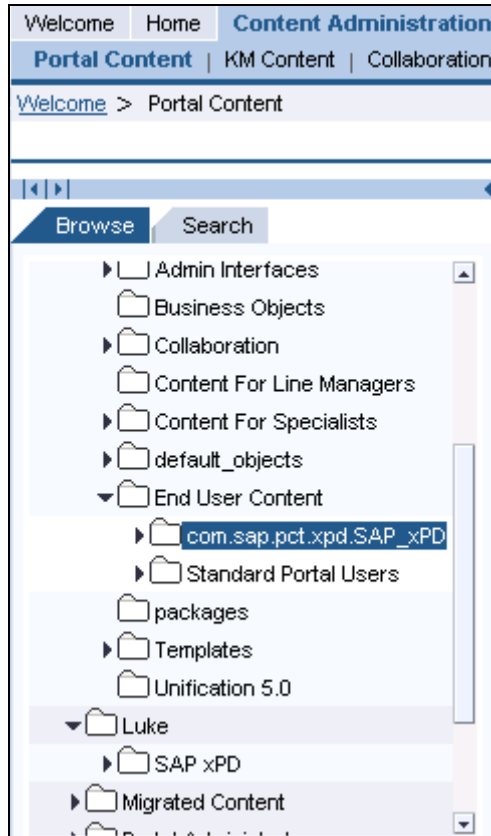
At the bottom of the dialog, there are three buttons: "Restore default", "Apply custom", and "Cancel".

### 3.3 Duplicate SAP xPD Business Package in SAP EP

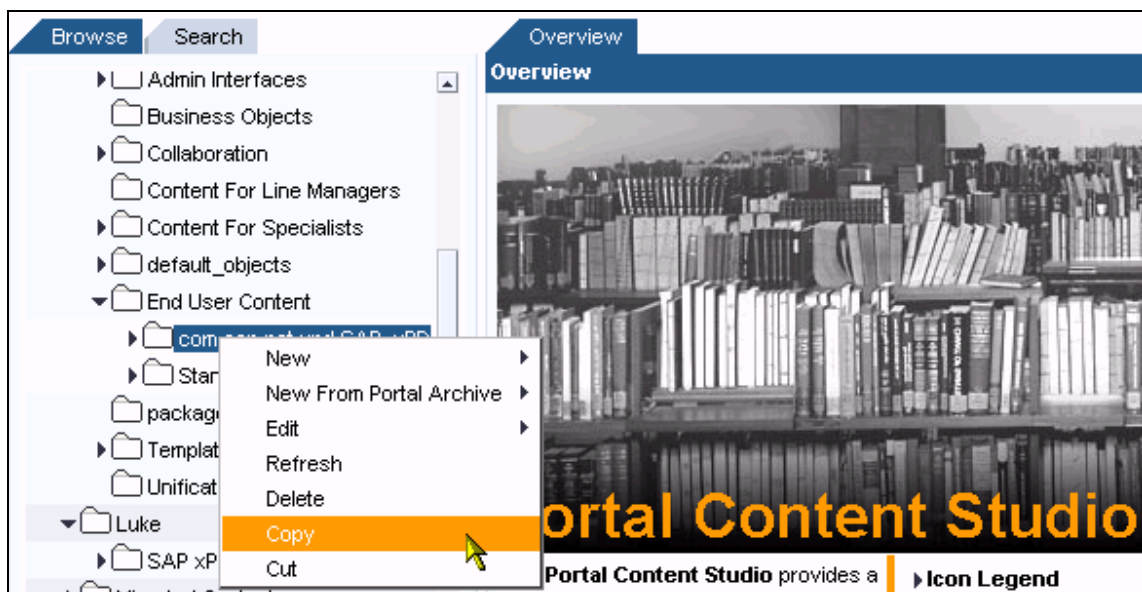
Repeat these steps for each SAP xPD system you want to connect to the SAP EP system.



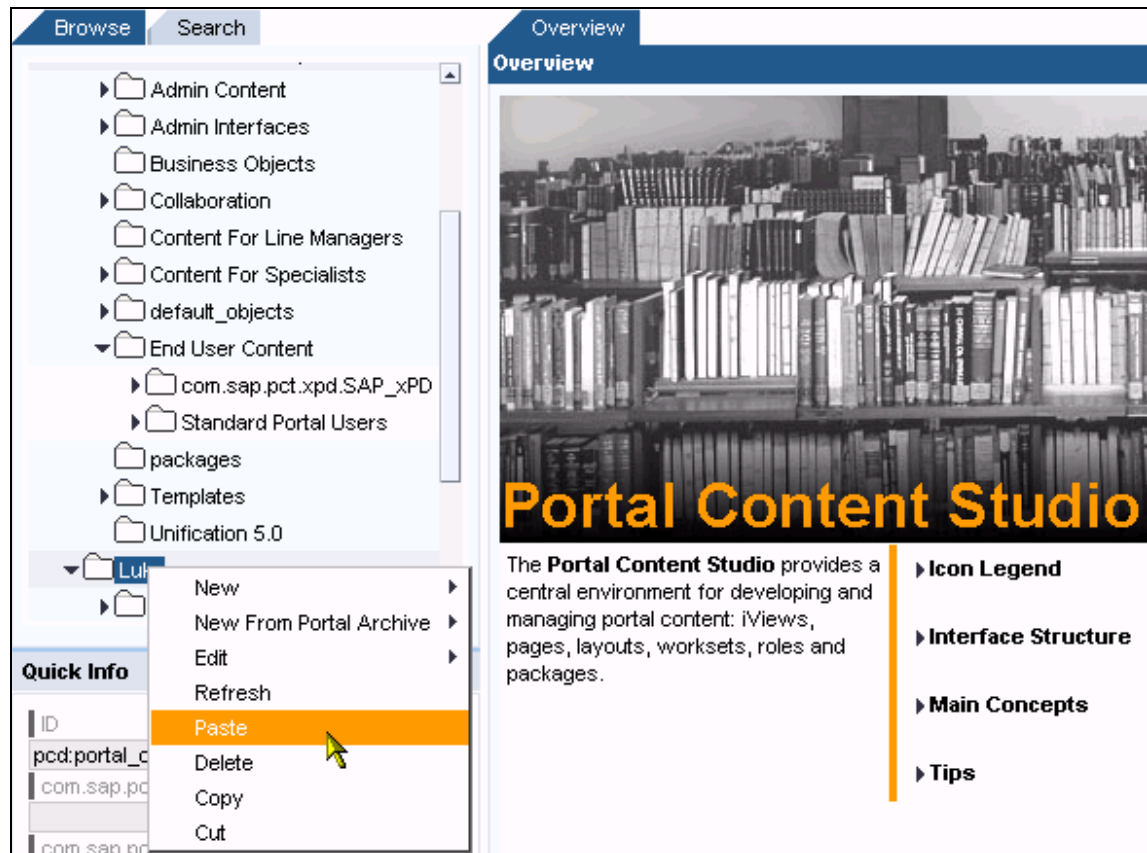
1. Since each SAP xPD iView is tied to a single system, you must duplicate all SAP xPD iViews.  
To do this, log on to your SAP EP system with the Content Administration role and the System Administration role or the Super Administration role. Then, navigate to: *Content Administration* → *Portal Content*. Under the *Browse* tab navigate to: *Portal Content* → *Content Provided by SAP* → *End User Content*.



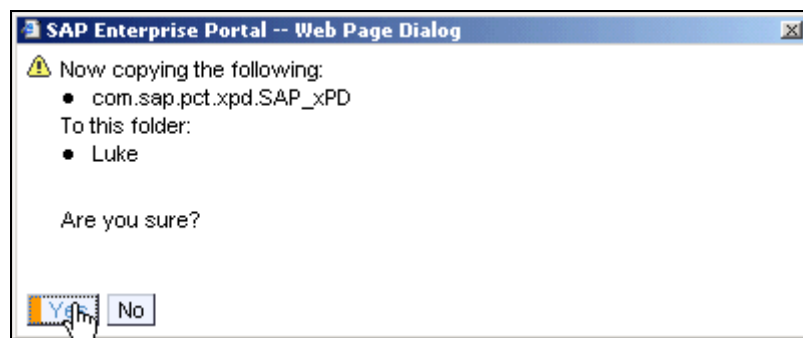
2. Right click on *com.sap.pct.xpd.SAP\_xPD* and choose *Copy*.



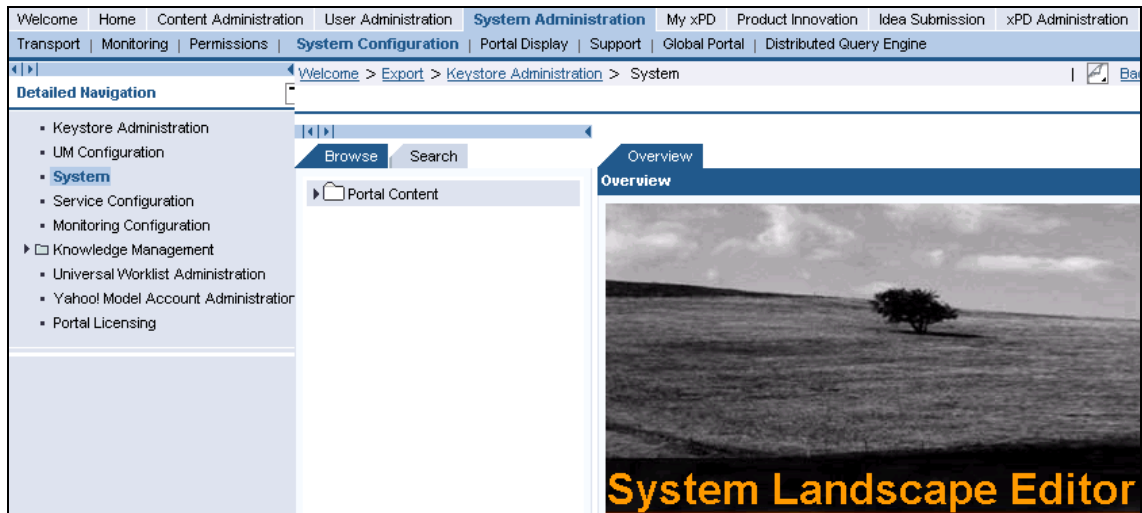
3. Navigate to the folder where you want to place your own portal content, right click on it and choose *Paste*.



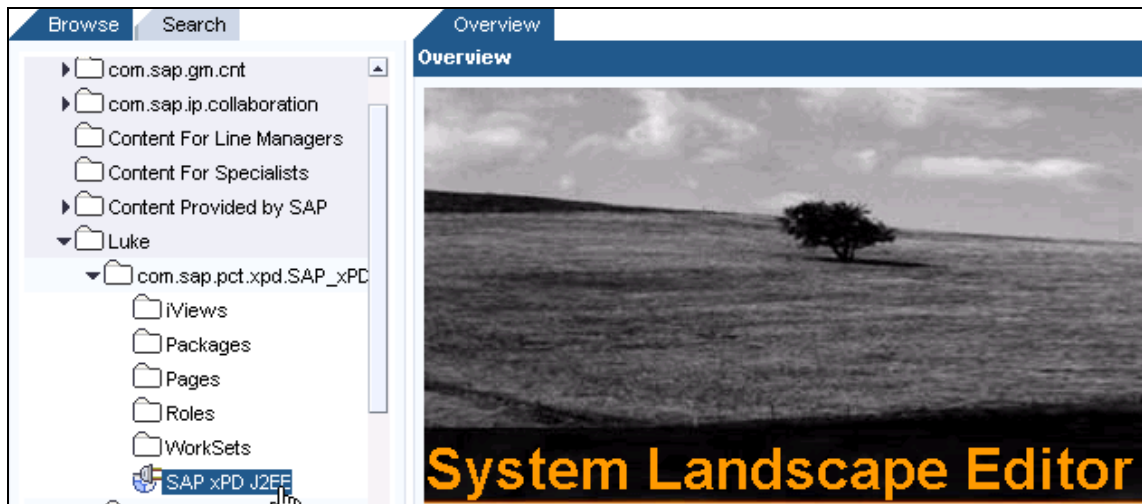
4. To confirm, choose Yes.



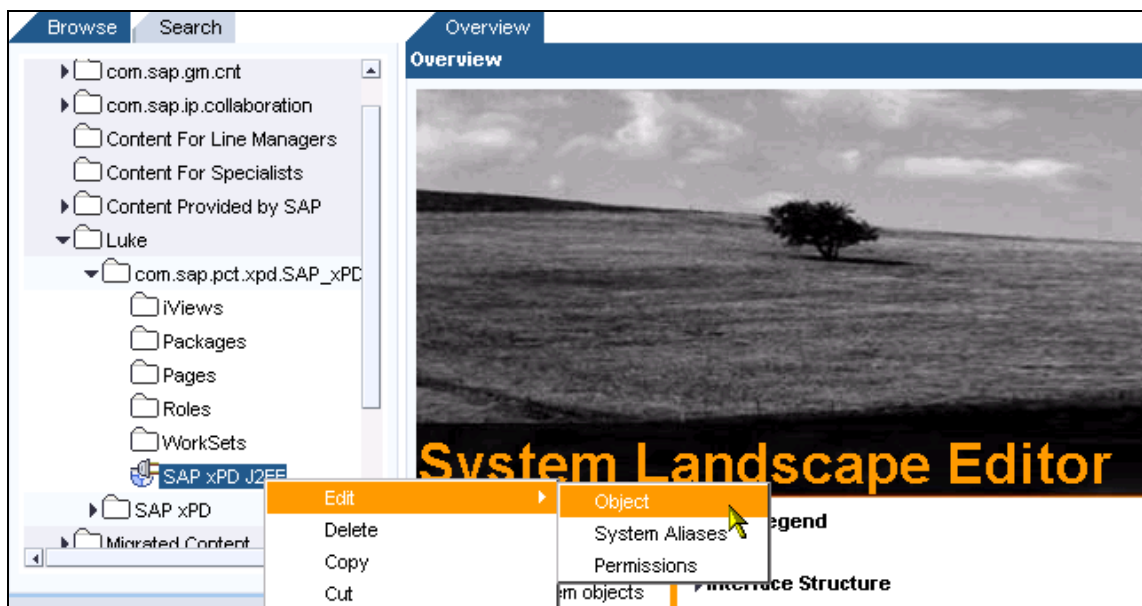
5. Navigate to *System Administration* → *System Configuration* → *Systems*.



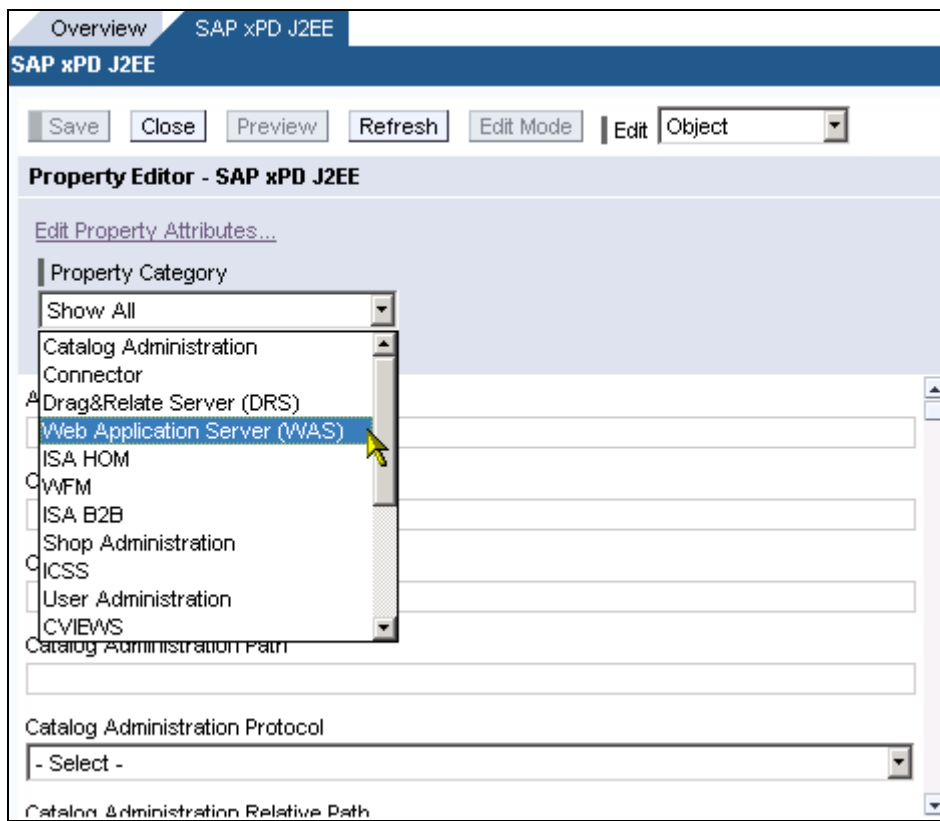
6. On the *Browse* tab, navigate to where you copied the SAP xPD Business Package and open the *com.sap.pct.xpd.SAP\_xPD* folder.



7. Right click on *SAP\_xPD\_J2EE* and select *Edit* → *Object*.



8. In the *Property Category* dropdown, select *Web Application Server (WAS)*.



9. Change the following parameters:

- *WAS Description*: Enter a description.
- *WAS Host Name*: Enter <SAP\_xPD\_Host>:<SAP\_xPD\_Port> where
  - <xPD\_Host> is the fully qualified SAP xPD host name
  - <xPD\_Port> is the SAP xPD host TCP/IP port number (default is 50000)
- *WAS Path*: Leave blank.
- *WAS Protocol*: Select an HTTP protocol (*http* or *https*).

Then, choose *Save*.

Overview SAP xPD J2EE

SAP xPD J2EE

Save Close Preview Refresh Edit Mode Edit Object

Property Editor - SAP xPD J2EE

[Edit Property Attributes...](#)

Property Category

Web Application Server (WAS)

WAS Description

My xPD System

WAS Host Name

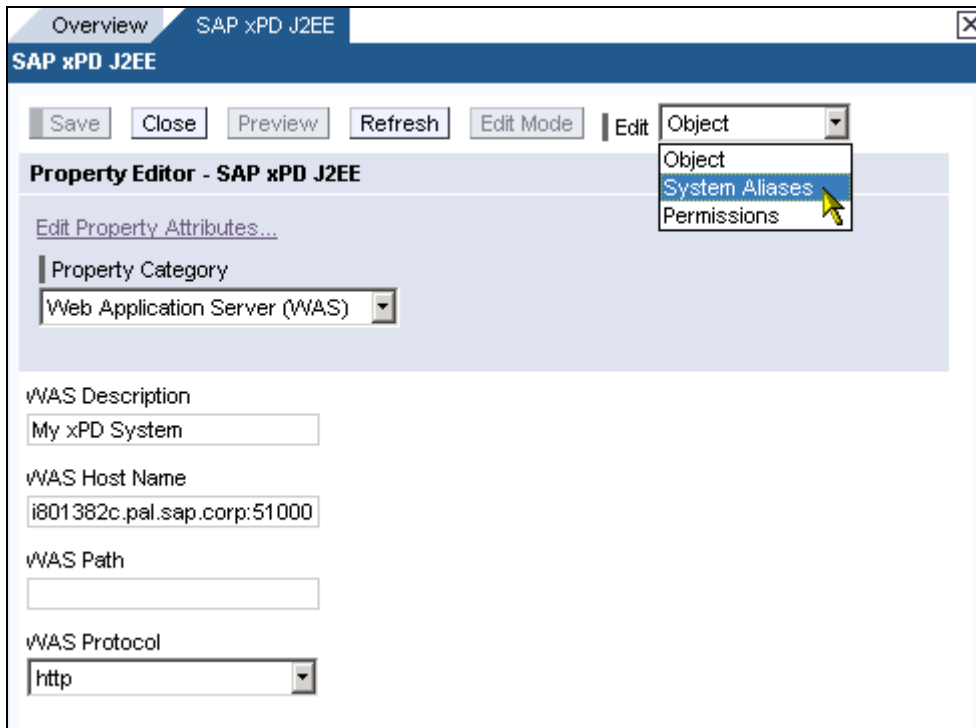
i801382c.pal.sap.corp:51000

WAS Path

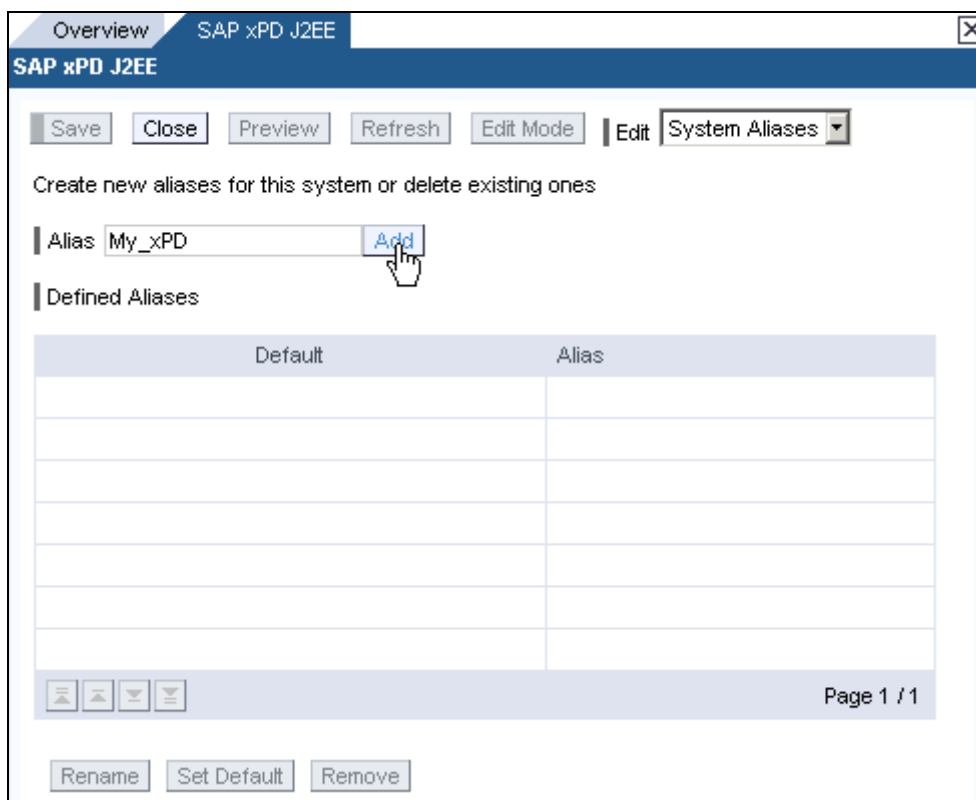
WAS Protocol

http

10. In the *Edit* dropdown, select *System Aliases*.



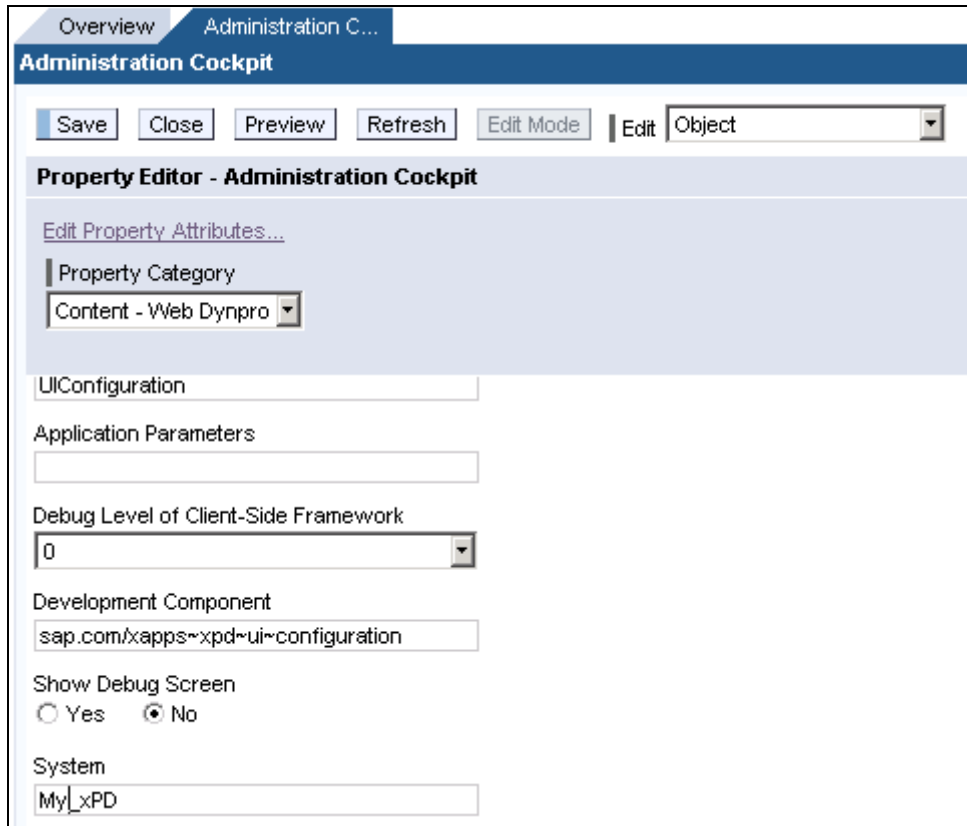
11. In the field *Alias*, enter an alias name and choose *Add*. Then, choose *Save* followed by *Close*.



12. Navigate to *Content Administration* → *Portal Content*, locate the folder where you copied the SAP xPD Business Package content on the *Browse* tab, and open the *iViews* folder under *com.sap.pct.xpd.SAP\_xPD* folder.

The screenshot displays the SAP Content Administration Portal interface. At the top, there is a navigation bar with tabs for 'Welcome', 'Home', 'Content Administration' (selected), 'User Administration', 'System Administration', 'My xPD', and 'Product Innovation'. Below this, a secondary navigation bar shows 'Portal Content' (selected), 'KM Content', 'Collaboration Content', and 'Workflow Content'. The main content area is divided into two sections: 'Browse' and 'Search'. The 'Browse' section shows a tree view of the content structure. The tree is expanded to show the following folders: Business Objects, Portal Content, com.sap.gm.cnt, com.sap.ip.collaboration, Content For Line Managers, Content For Specialists, Content Provided by SAP, Luke, com.sap.pct.xpd.SAP\_xPD, iViews, Packages, Pages, Roles, and WorkSets. The 'iViews' folder is expanded, showing a list of iView components: Administration Cockpit (highlighted with a mouse cursor), Concept Dashboard, Concept Editor, Concept Selector, Idea Dashboard, Idea Editor, Idea Selector, Ideas for Review, My Ideas, and Template Selector. The 'Search' section is currently empty. The right side of the interface shows an 'Overview' section with a header 'Overview' and a large image of a bookshelf. Below the image, the text reads: 'Portal Content Studio' in large orange letters, followed by a description: 'The Portal Content Studio provides a central environment for developing and managing portal content: iViews, pages, layouts, worksets, roles and packages.'

13. For each iView, right click on it and choose *Edit* → *Object*. Change *Property Category* to read *Content – Web Dynpro*. Change the value of the *System* parameter to the alias you created above. Then, choose *Save* followed by *Close*.





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