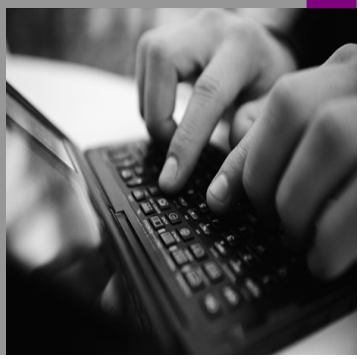

How-to Guide
SAP xPD 1.0

# How to… Switch the Content Management Repository for Attachments in SAP xPD

Version 1.00 – November 2004

Applicable Releases:
SAP xPD 1.0
SAP EP 6.0 SP2

THE BEST-RUN BUSINESSES RUN SAP

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# 1 Scenario

You want to use a different SAP Content Management (SAP CM) repository for storing attachments in SAP xApp Product Definition (SAP xPD).

# 2 Introduction

SAP xPD, via SAP Composite Application Framework (SAP CAF), stores attachments in SAP Knowledge Management and Collaboration (SAP KMC), which is part of SAP Enterprise Portal (SAP EP). More specifically, attachments are stored in a SAP CM repository, which is a sub-component of SAP KMC. When you configure an SAP EP system 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 configuration uses generic settings in SAP CAF. By default, SAP CAF uses a repository called `documents_xapps`, which is a pure database repository. This means that all documents, folders, and metadata are stored in the database. In general, retrieving documents from a database is slower than retrieving them from a file system. This document describes the different repository persistence modes you can use for SAP xPD and how you can switch from one to another.

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

Do not make changes directly to the standard delivered repository `documents_xapps`. Always create a new repository.

Only the repository manager CM Repository has been validated for SAP xPD.

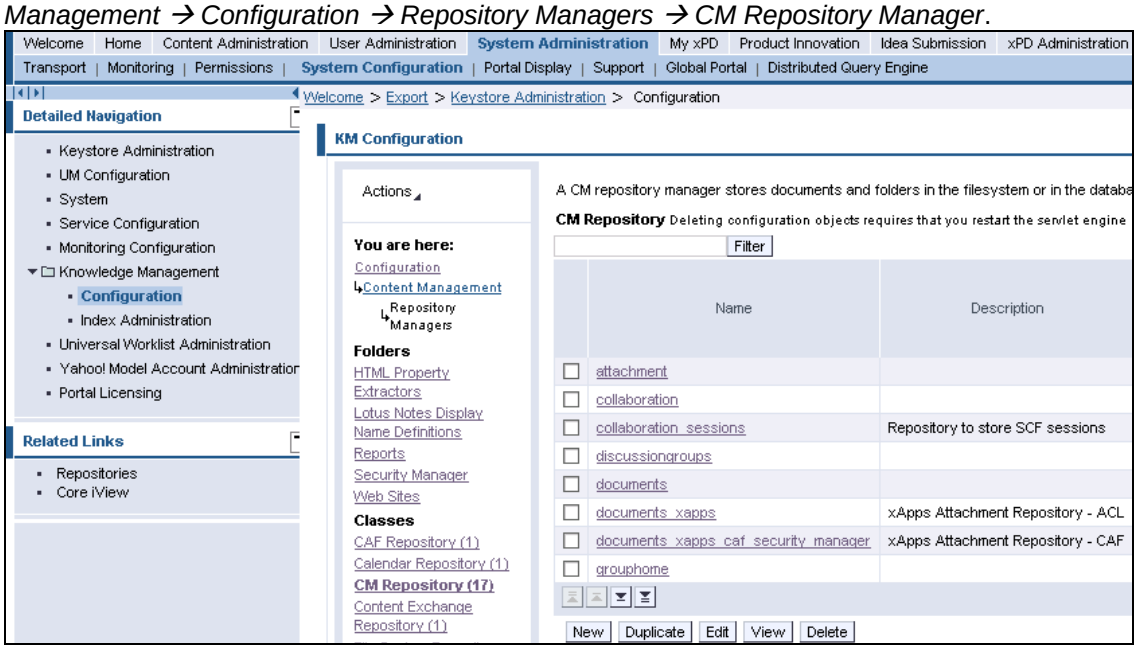
The information on repository persistence mode is extracted from standard SAP help documentation, available at http://help.sap.com.

# 3 The Step By Step Solution

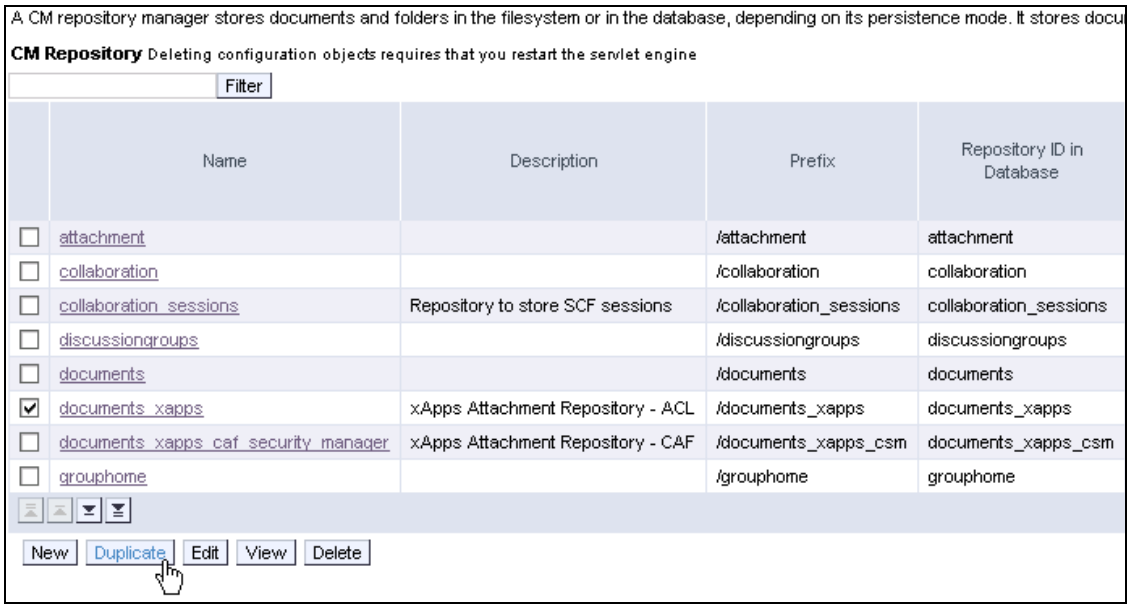
You must perform the required steps on the SAP xPD Web AS system (via the Visual Administration Tool) and on the SAP EP system.

## 3.1 Change SAP EP Settings

Log on to SAP EP with a user that has the System Administration or Super Administration portal role and navigate to: *System Administration → System Configuration → Knowledge Management → Configuration → Repository Managers → CM Repository Manager*.




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 will be stored.



Determine the base persistence mode for your situation.

**Persistence Modes**

CM repository managers can be set up in various modes. You can:

- Store all data (documents, folders, and metadata) in the database (DB)

  If there is a large number of write requests in your CM usage scenario, set up the CM repository in database mode. Since all documents are stored in the database, this avoids unintentional external manipulation of the data.

- Store metadata and folders in the database, but store documents in the file system (DBFS)

  This mode is quicker than the database mode, and allows you easier control over the size of the database (since documents are stored in the file system).

  Do not make any changes or manipulate files using the file system in DBFS mode.

- Store metadata in the database, but store folders and documents in the file system (FSDB)

  In this mode, the file system is predominant. If files are removed from or added to the file system, the database is updated automatically.

  Note that metadata (for example, locks or custom properties) can be lost if you edit or manipulate documents or folders directly in the file system. Only administrators should work in the file system, and they should only carry out mass operations such as copy and delete.

If you mainly have read requests, choose a mode in which content is stored in the file system. If this is the case, make sure that access to the relevant part of the file system is denied or restricted to other applications.

The above details are taken from SAP Help Portal at http://help.sap.com. If you are using **DBSF** or **FSDB**, you must specify values for the following parameters:

| Parameter | Description |
|---|---|
| `Root Directory` | This parameter is only needed if the `Persistence Mode` parameter is set to FSDB or DBFS. It denotes the path to the root directory in the file system that the repository manager is assigned to. This can be a directory on the local server (for example /usr/myshare/somedir) or on a released remote server. In order for you to access a file system of another UNIX host, the directory in question must be mounted on the portal server. The repository manager is responsible for this directory and all its subdirectories.<br>Multiple repository managers are not allowed to share a subpath in their `Root Directory` parameter. |
| `Root Directory for Versions` | The path to the root directory in the file system that is used to store versions.<br>This cannot be the path specified in `Root Directory` or any of its subdirectories. This parameter is only needed if the `Persistence Mode` parameter is set to FSDB. |

Change only the following parameters:

- 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 /)*, enter a prefix (for example, `/documents_xPD`).

  Make sure there are no spaces in the prefix and that 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 repository ID.
- In the *Root Directory* field, enter a root directory.

  If you are using `FSDB` or `DBSF`, you must specify a value here. For further information, see step 3.
- In the *Root Directory for Versions* field, enter an appropriate value.

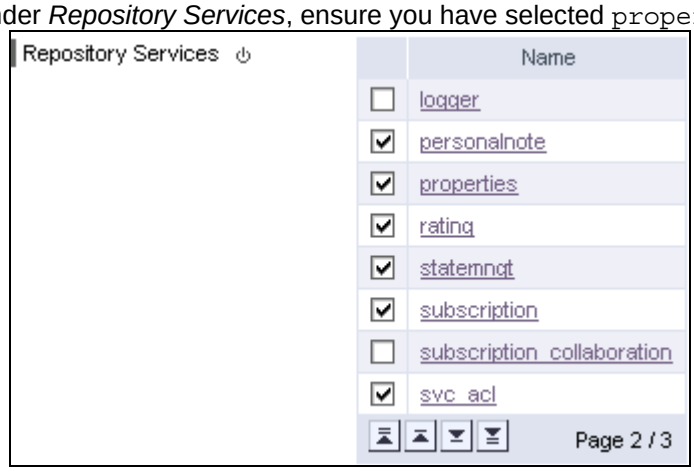
  If you are using `FSDB`, you must specify a value here. For further information, see step 3.
- In the *Persistence Mode* field enter an appropriate value.

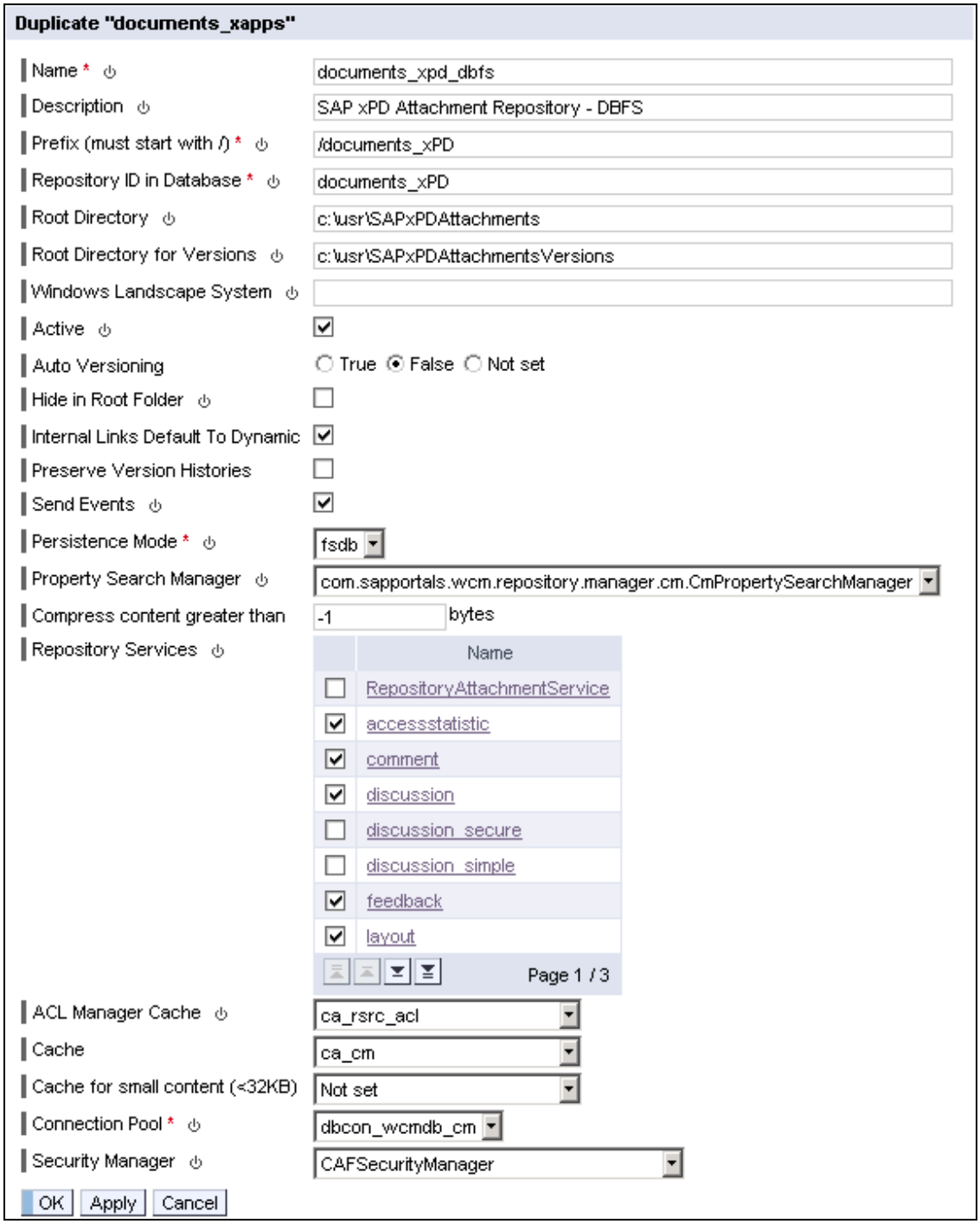
  For further information, see above.
- In the *Security Manager* field, enter an appropriate value.

  You should use a CAF security manager (for example, `CAFSecurityManager`).

  This ensures that attachments are not visible to unauthorized users

Under *Repository Services*, ensure you have selected `properties`.

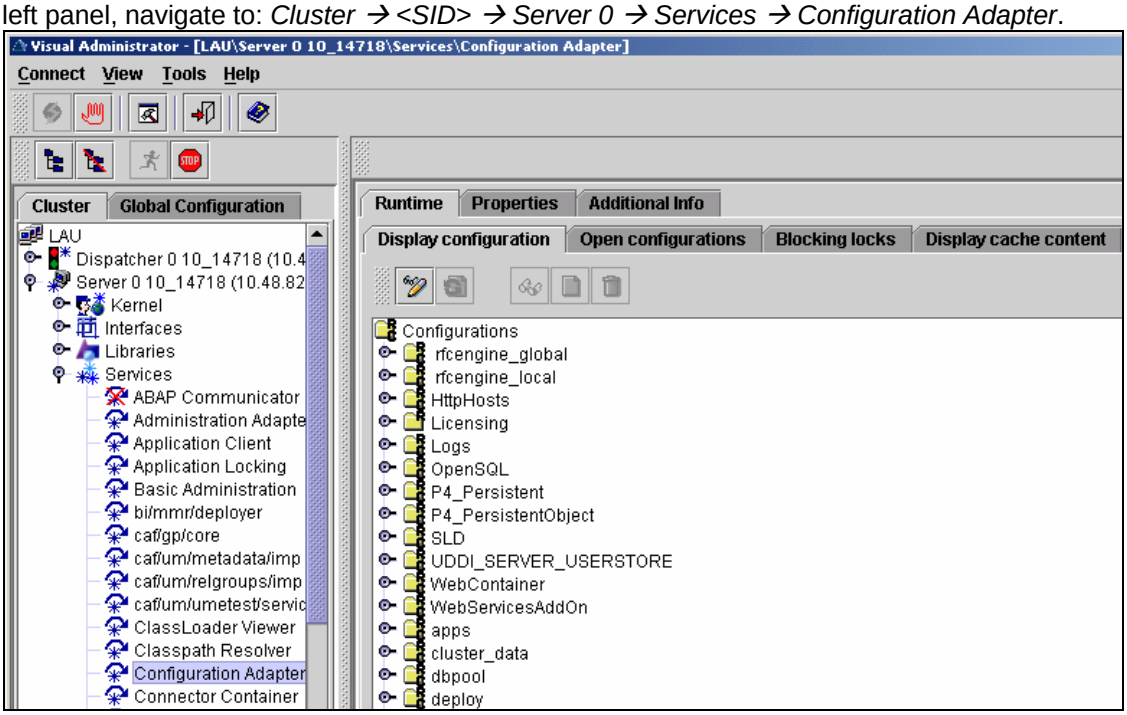




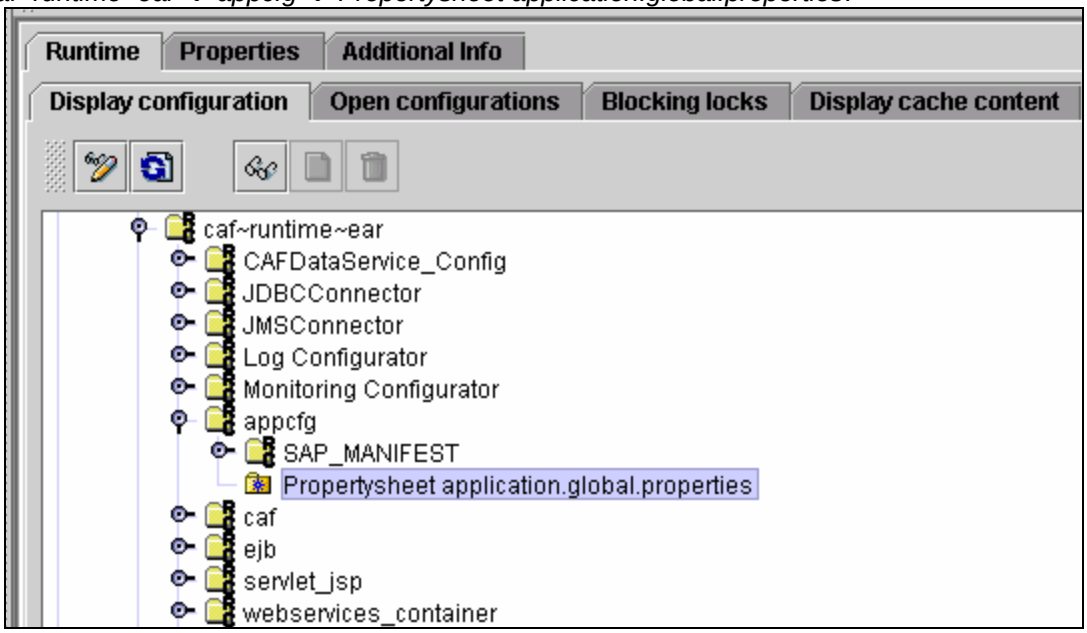

When you have finished, choose *OK*. The system tells you that the changes require you to restart the servlet engine, so restart your portal Web AS engine.

## 3.2 Change SAP xPD Web AS Settings

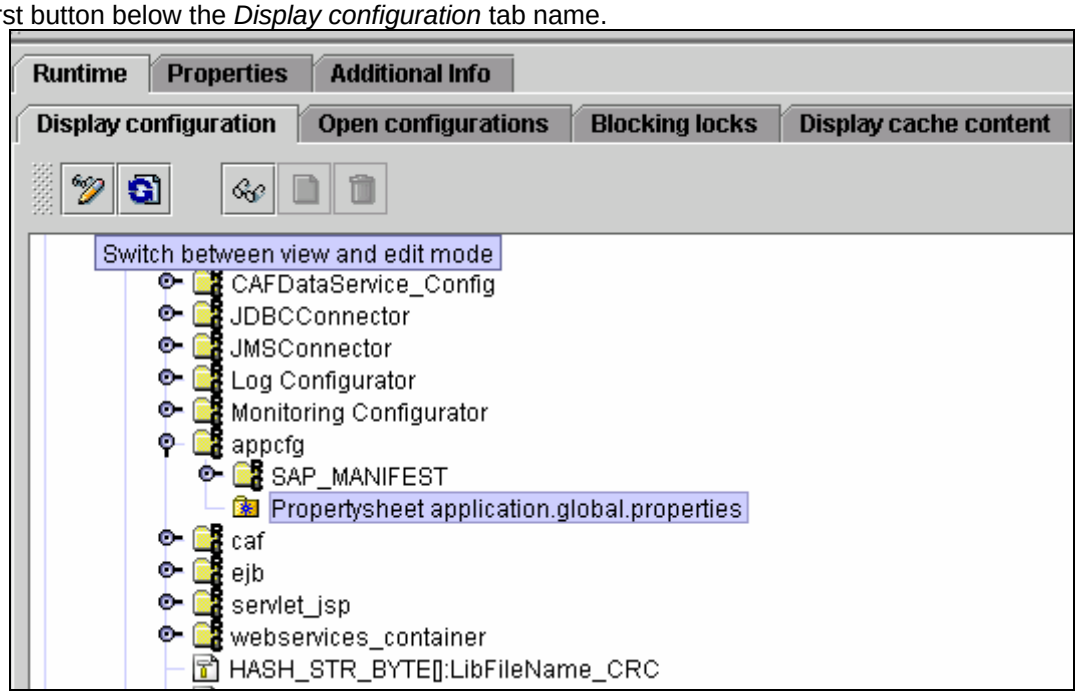
Start the SAP xPD Web AS Visual Administration Tool and log on as the administrator. On the left panel, navigate to: *Cluster → <SID> → Server 0 → Services → Configuration Adapter*.



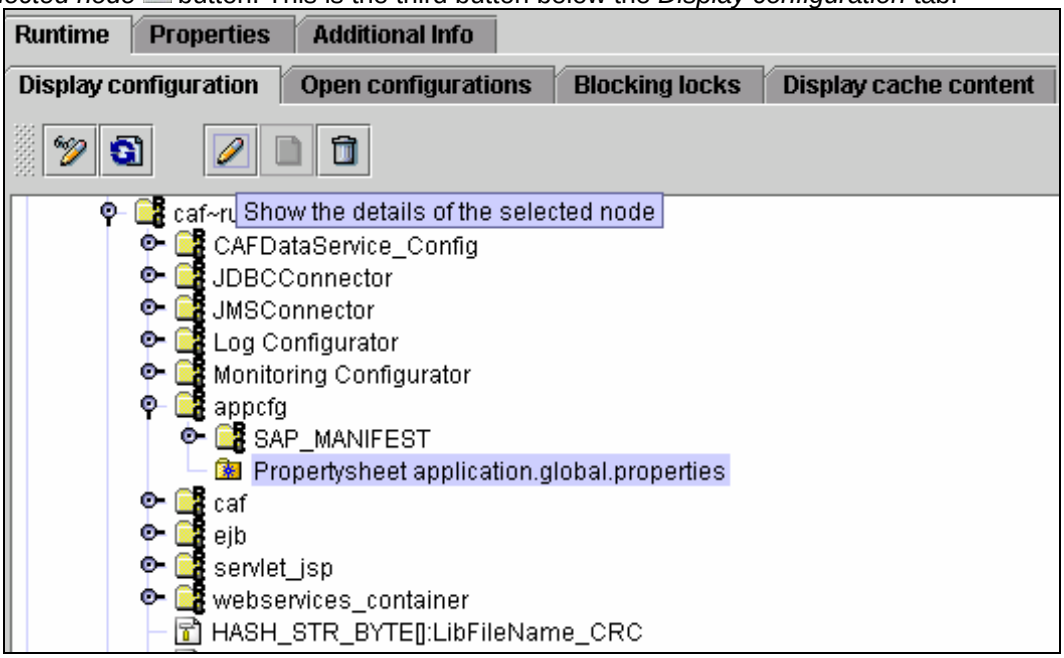

On the right panel, navigate to *Display configuration → Configurations → apps → sap.com → caf~runtime~ear → appcfg → Propertysheet application.global.properties*.



Enable property editing by choosing *Switch between view and edit mode* button. This is the first button below the *Display configuration* tab name.



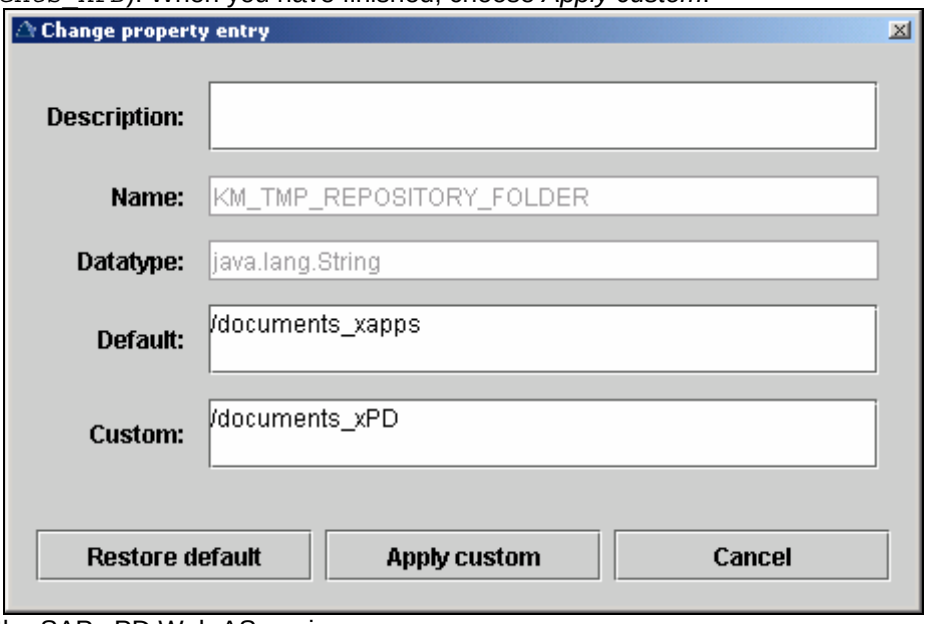

With *Propertysheet application.global.properties* selected, choose *Show the details of the selected node* button. This is the third button below the *Display configuration* tab.




Edit the property `KM_TMP_REPOSITORY_FOLDER` by clicking on it. This is the folder where attachments are stored.

| | |
|---|---|
| KM_PREVIEW_URL | http://km_host:km_port/ir |
| KM_REPOSITORY | /caf |
| KM_TMP_REPOSITORY_FOLDER | /documents_xapps |
| NOTIF_USE_DEPLOYED_SUBSCR | false |
| PUBLISH_ENABLED | true |
| SEARCH_FUZZINESS | 0.7 |

In the *Custom* field, enter the new CM repository you created above (for example, `/documents_xPD`). When you have finished, choose *Apply custom*.




Restart the SAP xPD Web AS engine.