ASF 3.3 with IMS Document Connect for ASF

Installation on z/OS Server Using WebSphere Application Server V6

Server-to-Host Connection using WebSphere MQ

Draft for Edition: 1.2

19 December 2006

1	PREREQUISITES	3
2	INSTALLATION OF THE APPLICATION	4
Pre	paring for the application installation	4
Inst	all new application (Step 1)	6
Inst	Install new application (Step 2)	
Inst	all new application (Step 3)	8
Inst	all new application (Step 4)	9
Star	rt the application	9
3	ACTIVATION OF DICTIONARIES FOR SPELLCHECKING	10
4	ENABLE MQ CONNECTION	11
5	WEB SERVER CHANGES	12
5	ng the IBM HTTP Server 1.1.1 Configure the WebSphere PLUGIN 1.1.2 Configure the IBM HTTP Server	12 12 12
Usiı	ng the Microsoft Internet Information Server (IIS)	12
6	CONFIGURE THE CONNECTIONS	13
7	SINGLE CONFIGURATION FILE	14
8	RACF-CONTROLLED ACCESS TO THE CONFIGURATION SERVLETS	16
9	AFP RESOURCES	17
Сор	Copy the AFP Resources into USS	
Dire	ect Read from Partitioned Datasets	18
10	INSTALLING A SECOND APPLICATION	19
11	APPI YING MAINTENANCE	20

1 Prerequisites

1. WebSphere Application Server (WAS) V6 has been installed, is operational, and has been started.

Note: The installation path is assumed to be /local/WebSphere/V6R0

2. IBM HTTP Server (Version 1.3.26, or later) has been installed, is operational, and has been started.

Note: The installation path is assumed to be /etc

3. WebSphere MQ has been installed and the connections to the host (IMS) are available. This means that the input and output queue are available and the input queue is connected to IMS via the storage class.

Note: The MQ installation path is assumed to be /usr/lpp/mqm/V6R0M0

4. Document Connect for ASF (DC4ASF) has been installed via SMP/E in the following directory:

/usr/lpp/dc4asf/IBM

which means the DC4ASF war file resides in the directory:

/usr/lpp/dc4asf/war

2 Installation of the application

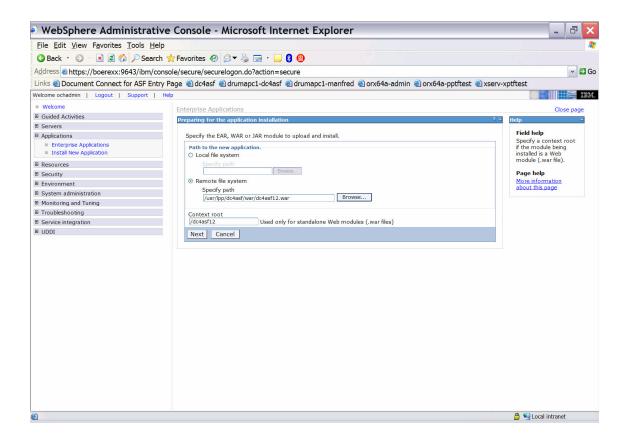
Preparing for the application installation

Open Application > Install New Application

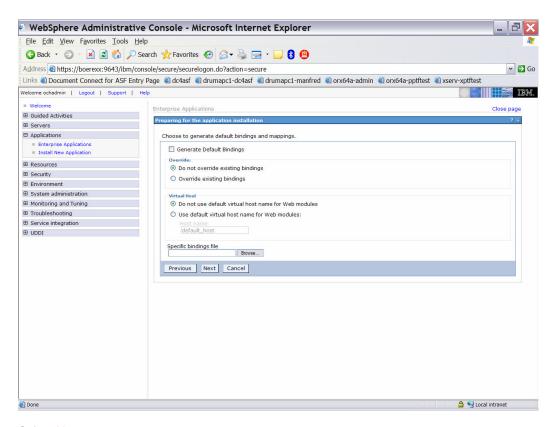
Enter the path (local path or server path) where the DC4ASF war file is located:

/usr/lpp/dc4asf/war/dc4asf12.war

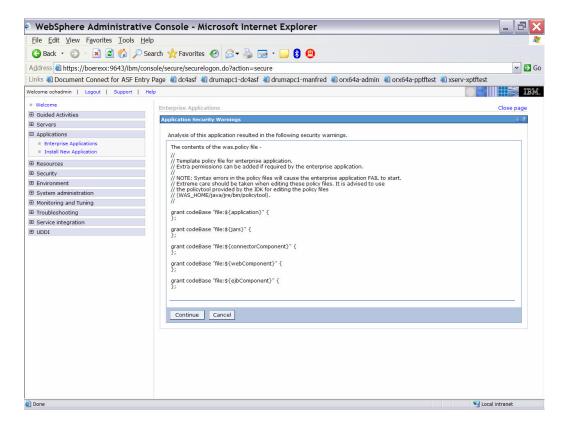
Enter the context root, for example "/dc4asf12"



Select Next. The file "dc4asf12.war" is now loaded on the server.



Select Next.



Select Continue.

Install new application (Step 1)

Fill in the required fields (installation directory, application name, class reloading).

Directory to install application:

If you do not enter an installation directory, WAS will install the application under the default directory:

APP INSTALL ROOT/xxxxx/dc4asf12.ear

where

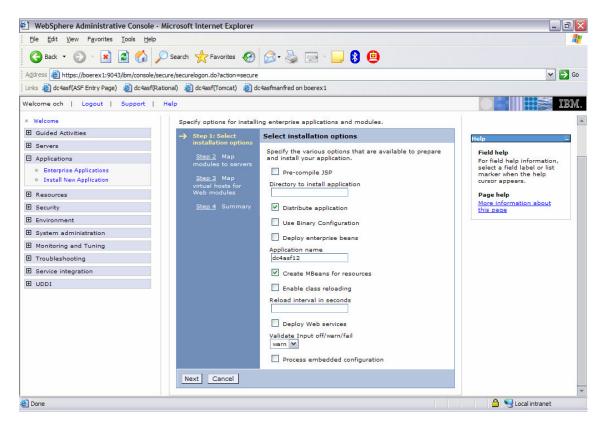
- APP_INSTALL_ROOT is a path map variable which for example is set to /local/WebSphere/V6R0/AppServer/profile/default/installedApps/
- 'xxxxx' is the cell name and
- 'dc4asf12' is the application name.

Application Name:

Specify a unique name, for example 'dc4asf12'.

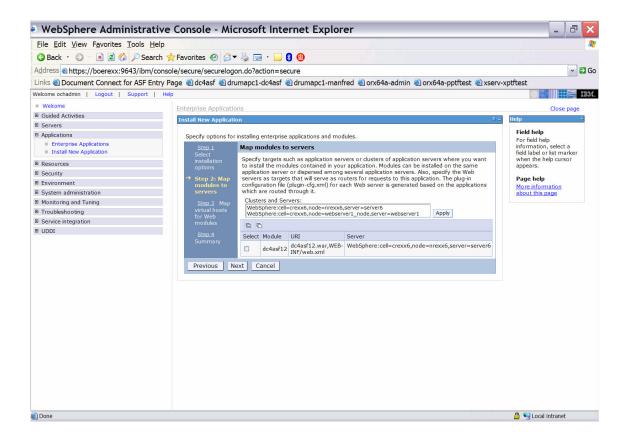
Class Reloading:

Do not enable class reloading.



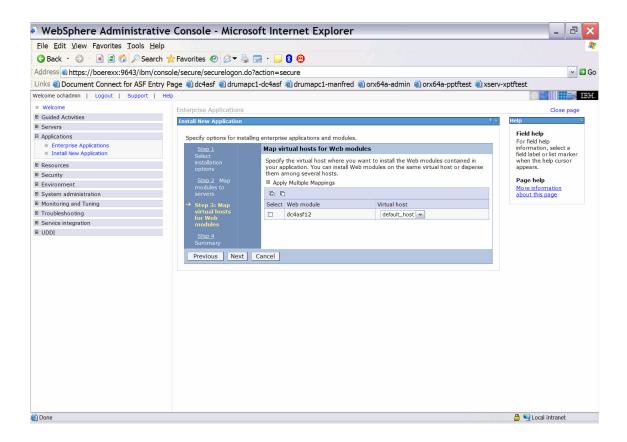
Select Next to finish Step 1 and go to Step 2.

Install new application (Step 2)



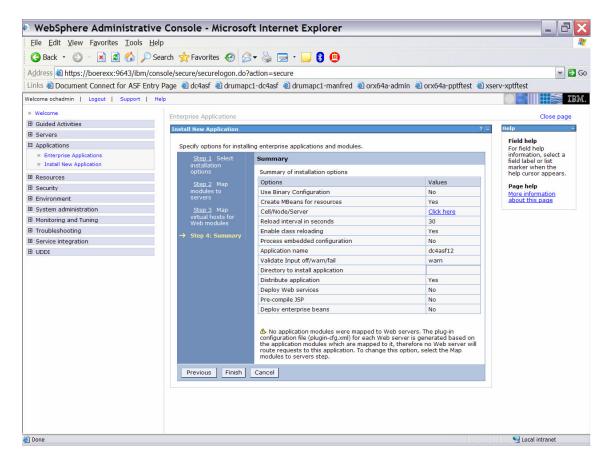
Select Next to finish Step 2 and go to Step 3.

Install new application (Step 3)



No updates are required for Step 3. Select Next to finish Step 3 and go to Step 4.

Install new application (Step 4)



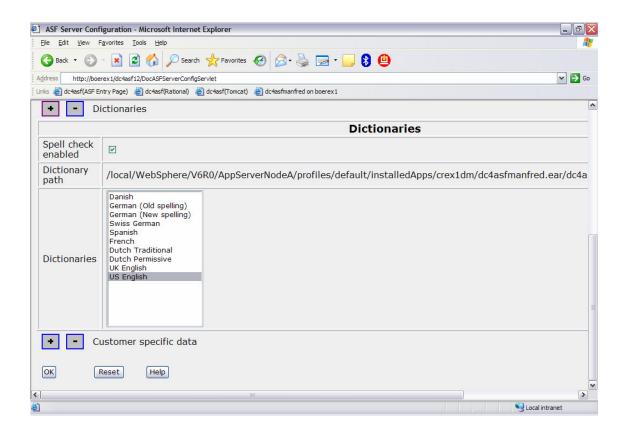
Check the settings on this page and select <u>Finish</u> to start the installation of your application. When the installation of the application has been completed it must be <u>saved</u> in the master configuration.

Start the application

Open <u>Applications</u> > <u>Enterprise Application</u>, select your dc4asf12 application, and select <u>Start</u> to start the application.

3 Activation of Dictionaries for Spellchecking

To activate the dictionaries for spellchecking invoke the servlet application "DocASFServerConfigServlet", using the Microsoft Internet Explorer. Ask the ASF administrator(s) which dictionaries should be active.



Select OK.

Stop and Start your application using the WebSphere Administrative Console.

4 Enable MQ Connection

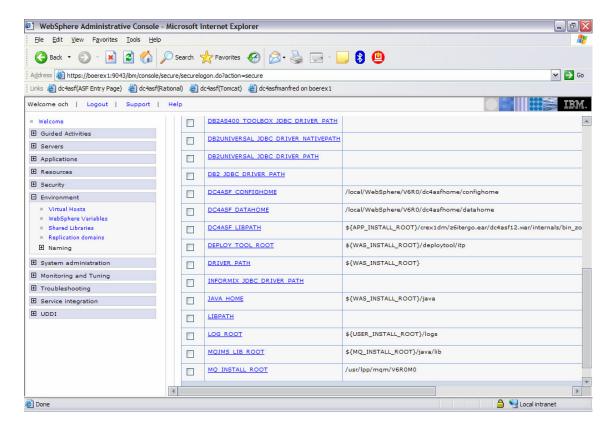
To enable the MQ connection between server and host you must have installed WebSphere MQ as JMS provider. For more information refer to:

http://publib.boulder.ibm.com/infocenter/wasinfo/v6r0/topic/com.ibm.websphere.base.doc/info/aes/ae/t mj instm.html

Set the MQJMS_LIB_ROOT environment variable to the directory where WebSphereMQ\Java\lib is installed. IBM WebSphere Application Server uses the MQJMS_LIB_ROOT to locate the WebSphere MQ libraries for the WebSphere MQ JMS Provider.

Open Environment > WebSphere Variables

Set the MQ_INSTALL_ROOT environment variable to your WebSphere MQ installation path (e.g. /usr/lpp/mqm/V6R0M0) and the MQJMS_LIB_ROOT to \${MQ_INSTALL_ROOT}/java/lib.



Select Apply first and then select OK.

Save the changes to the master configuration.

After modifying the environment variables, you must stop and restart WebSphere Application Server.

5 Web Server Changes

Using the IBM HTTP Server

5.1.1 Configure the WebSphere PLUGIN

Using Shared Object library "ihs390WAS60Plugin_http.so"

Make sure you have installed the Shared Object (SO) library ihs390WAS60Plugin_http.so. This SO is usually installed with WAS by selecting the HTTP server installation. It resides in the bin directory of the WAS installation.

Generate the configuration file "plugin6-cfg.xml"

Generate the plugin configuration file "plugin6-cfg.xml" using the WebSphere Administrative Console. For more information refer to

http://publib.boulder.ibm.com/infocenter/ieduasst/v1r1m0/index.jsp

chapter "Create Web Server Definition and Map Applications"

5.1.2 Configure the IBM HTTP Server

You need to configure your IBM HTTP Server to run properly with DC4ASF. Proceed as follows:

- a) Open the HTTP server configuration file "httpd.conf". Usually it is located in the conf directory of the HTTP server installation.
- b) Verify that the Shared Object (SO) library points to the configuration file "plugin6-cfg":

 $ServerInit\ /local/zWebSphere/V6R0/bin/ihs390WAS60Plugin_http.so:init_exit\ /etc/plugin6-cfg.xml$

c) If you changed the file "httpd.conf" then restart the HTTP server to activate the changes.

Using the Microsoft Internet Information Server (IIS)

6 Configure the Connections

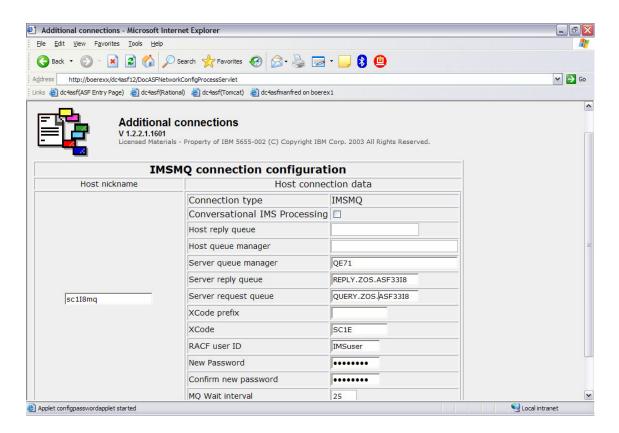
To define the server-host connections in DocNetworkConfiguration.xml invoke the servlet application "DocASFNetworkConfigServlet", using the Microsoft Internet Explorer.

Specify the queue manager, the server reply queue, the server request queue, the IMS transaction code, the defined RACF user ID used for IMS logon, the corresponding password and the MQ wait interval.

Press button OK to save your changes.

Note:

- The password specified will be encrypted and stored in file "hnp.txt" in the /config subdirectory.
- Do not specify the host reply queue and the host queue manager if within one MQ system (server reply queue and server request queue are both local). If you go to IMS via different MQ systems (you have remote queues and channel definitions) you must specify the host queue manager and the host reply queue. Both are in the target system which is connected to your IMS system.
- If you specify a IMS transaction code prefix xxx, the transaction code for preview requests is set to xxxV, the transaction code for quick preview requests is set to xxxQ and the transaction code for all other requests is set to xxxE.
- If you specify a IMS transaction code, this transaction code is used for all requests.



Stop and Start your application in the WebSphere Administrative Console.

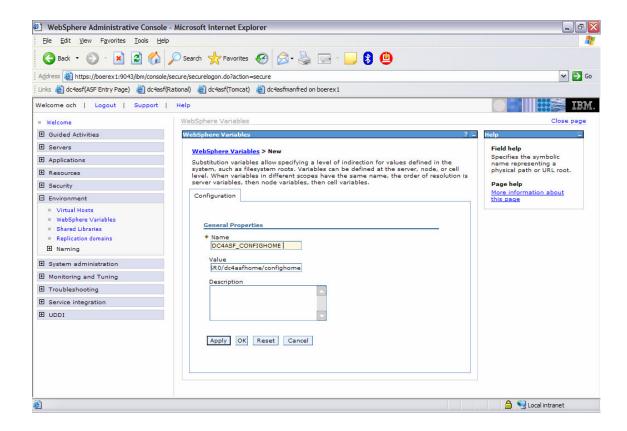
7 Single Configuration File

If you are running DC4ASF in a multi-node environment or you have more than one instance of DC4ASF but you want to have only one set of configuration files, perform the following steps:

Create two WebSphere variables

Open <u>Environment</u> > <u>WebSphere Variables</u> > <u>New</u>

Create the variables DC4ASF_CONFIGHOME and DC4ASF_DATAHOME and set the values for example to /local/WebSphere/V6R0/dc4asfhome/confighome and /local/WebSphere/V6R0/dc4asfhome/datahome



· Create the three directories

\$(CONFIG_HOME) like /local/WebSphere/V6R0/dc4asfhome/confighome \$(DATA_HOME)/log like /local/WebSphere/V6R0/dc4asfhome/datahome/log \$(DATA_HOME)/preview like /local/WebSphere/V6R0/dc4asfhome/datahome/preview

Copy the configuration files

DocConfiguration.xml
DocNetworkConfiguration.xml
DocXSLConversion.xml
DocSpellCheckConfiguration.xml
hnp.txt

From \$(APP_INSTALL_ROOT)/boeuxbs32Node01Cell/dc4asf12.ear/dc4asf12.war/internals/config to \$(CONFIG_HOME)

Change the configuration.xml as follows:

```
<Network>
       <ConfigFile>$(CONFIG_HOME)/DocNetworkConfiguration.xml</ConfigFile>
</Network>
<XSLConversion>
 <hr/><hr/>HTMLPath>xsl</hr>
       <ConfigFile>$(CONFIG_HOME)/DocXSLConversion.xml</ConfigFile>
</XSLConversion>
<Logging enable="Y">
       <GenericName>$(DATA_HOME)/log/logfile</GenericName>
       <Extension>.log</Extension>
       <NumberOfGenerations>10</NumberOfGenerations>
       <Filesize>3096</Filesize>
       <Recordlength>330</Recordlength>
</Logging>
<Tracing enable="Y" sessiontrace="N">
       <GenericName>$(DATA_HOME)/log/trcfile</GenericName>
       <Extension>.trc</Extension>
       <Recordlength>3300</Recordlength>
```

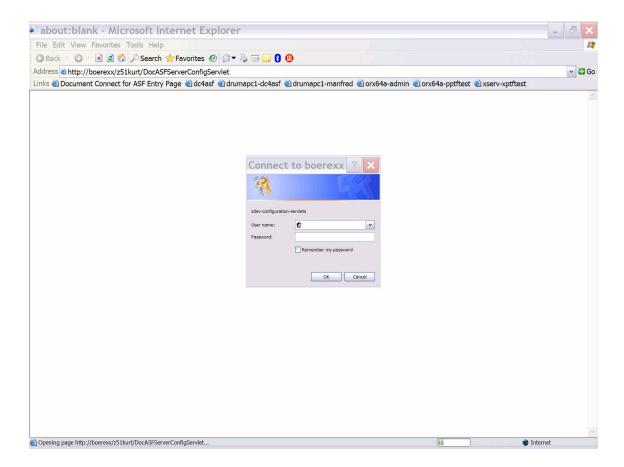
8 RACF-controlled access to the Configuration Servlets

To control access to the DC4ASF configuration servlets by specification of RACF user Id and password you have to configure the IBM HTTP Server as follows:

- a) Open the HTTP server configuration file "httpd.conf". Usually it is located in the conf directory of the HTTP server installation.
- b) Add the following lines:



Where the "Protect" lines indicate the servlets to be protected and the "Mask" lines contains the user Ids which are allowed to invoke the specified servlets.



9 AFP Resources

To make the AFP resources (page segments and overlays) available on the server for resolution during "Print review" requests there are two possibilities:

- 1. Copy the AFP Resources into USS
- 2. Direct Read from Partioned Datasets

Copy the AFP Resources into USS

For using the AFP Resources in USS perform the following steps:

Copy the page segments from the host system (for example using ftp) into the directory

 $\label{local-webSphere} I local/WebSphere/V6R0/AppServer/profile/default/installedApps/xxxxx/dc4asf12.ear/dc4asf12. war/AFPResources/pseg$

Note:

the extension of the overlays must be "**psg**" specified in lower case while the resource names must be specified in upper case).

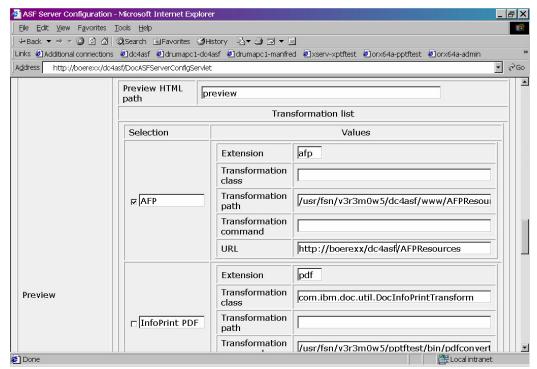
Copy the overlays from the host system (for example using ftp) into the directory

 $\label{local-WebSphere-V6R0-AppServer-profile-default/installed-Apps/xxxxx/dc4asf12.ear/dc4asf12. war/AFPR esources/ovl$

Note:

the extension of the overlays must be "oly" specified in lower case while the resource names must be specified in upper case).

 To define the server URL in DocConfiguration.xml invoke the servlet application "DocASFServerConfigServlet", using the Microsoft Internet Explorer. Specify your server URL and your transformation path in the Preview AFP Section.



Press button OK to save your changes.

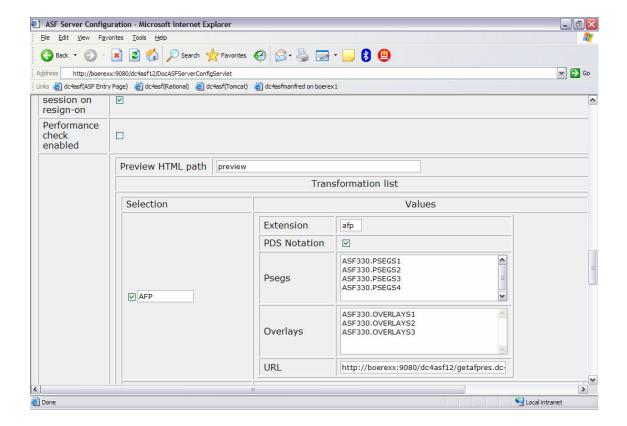
Direct Read from Partitioned Datasets

To define the direct read from portioned datasets invoke the servlet application

"DocASFServerConfigServlet", using the Microsoft Internet Explorer. Specify your server URL and the partitioned datasets where your overlays and page segments are residing in the Preview AFP section. The server URL must be

http://xxxx/appl//getafpres.dc4asfcommand?getfile=

where xxxx and appl must be changed to your installation for example //boerexx:9080/dc4asf12.



10 Installing a second Application

The steps above describe how to install the application dc4asf12 in WebSphere Application Server.

IBM recommends that you generate a second application instance of Document Connect for ASF for use by administrators, for example "dc4asf12test".

Perform the steps described in "Installation of the application" with the following changes:
 In the paragraph "Preparing for the application installation" specify the following context root:
 /dc4asf12test

In the paragraph "Install new application (Step 1)", use "dc4asftest12" as the application name.

2. Perform the steps described in "Configure the Connections"

11 Applying Maintenance

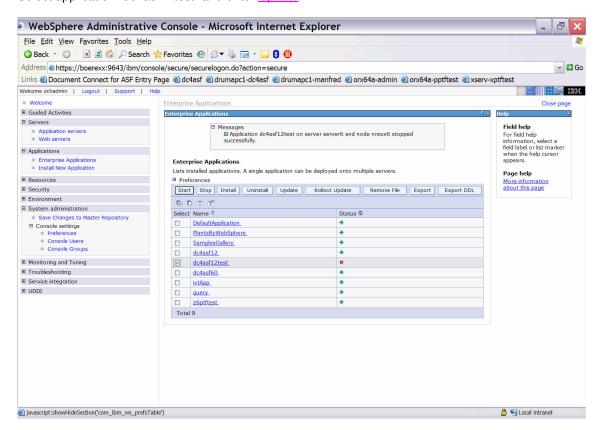
Use SMP/E to apply a PTF containing a new tar file. SMP/E will copy the zip file into directory

/usr/lpp/dc4asf/ptf

Open the WebSphere Administrative Console:

Open Application > Enterprise Application

<u>Stop</u> the applicable application, for example "dc4asf12test". Select application "dc4asf12test" and enter <u>Update</u>.



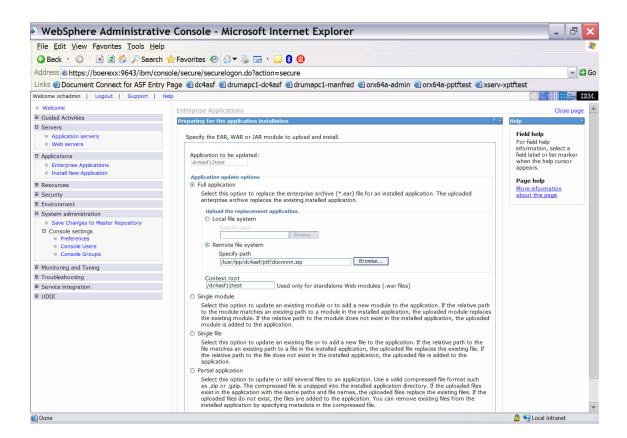
Enter the path (local path or server path) where the new DC4ASF zip file is located:

/usr/lpp/dc4asf/ptf/docnnnn.zip

Enter the context root: "/dc4asf12test"

Note:

The context root must be the same as the context root entered during installation (see "Preparing for the application installation").



On each of the next panels select Next and finally select Finish. After the update of the application has been completed save the master configuration.

Open <u>Applications</u> > <u>Enterprise Application</u> and select your application dc4asf12test. Select <u>Start</u> to restart the application.