ASF 3.3 with IMS Document Connect for ASF

Installation on AIX Server Using WebSphere Application Server V6

Server-to-Host Connection using WebSphere MQ

Draft for Edition: 1.2

19 December 2006

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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 /usr2/WebSphere/AppServer60

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 /usr/IBMHttpServer1328

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

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

4. Document Connect for ASF (DC4ASF) war file has been downloaded.

Note: The path where the war file dc4asf.war resides is assumed to be /usr/swrepository/dc4asf/was60/war/1.2.2.1/

2 Installation of the application

Preparing for the application installation

Open <u>Application</u> > <u>Install New Application</u>

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

/usr/swrepository/dc4asf/was60/war/1.2.2.1/dc4asf12.war

Enter the context root, for example "/dc4asf12"

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Resources	Specify path	appears.
1 Security	browse	Page help
Environment	Remote file system	More information about this page
System administration	Specify path	
Monitoring and Tuning	psitory/dc4ast/wasbu/war/1.2.2.1/dc4ast12.wan	
Troubleshooting ■	Context root	
Service integration	/dc4asf12 Used only for standalone Web modules (.war files)	
E UDDI	Next Cancel	
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Select <u>Next</u>. The file "dc4asf12.war" is now loaded on the server.

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E Guided Activities	Preparing for the application installation	2
E Servers	reparing for the application installation	
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Enterprise ApplicationsInstall New Application	Generate Default Bindings	
Resources	Override:	
E Security	O not override existing bindings	
Environment	Override existing bindings	
System administration	- Makural Harak	
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Service integration	Use default virtual host name for Web modules:	
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Select <u>Next</u>.

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Applications	Analysis of this application resulted in the following security warnings.	
Enterprise ApplicationsInstall New Application	The contents of the was.policy file - //	
Resources	// Template policy file for enterprise application. // Extra permissions can be added if required by the enterprise application.	
E Security	// // NOTE: Syntax errors in the policy files will cause the enterprise application FAIL to start.	
Environment	// Extreme care should be taken when editing these policy files. It is advised to use // the policytool provided by the 1DK for editing the policy files.	
System administration	// (WAS_HOME/java/jre/bin/policytool).	
Monitoring and Tuning	arost radeBace "filest (poplication)" (
	<pre>grant codebase mets(apprication) { };</pre>	
Service integration	grant codeBase "file:\${jars}" {	
E UDDI	grant codeBase "file:\${connectorComponent}" { } grant codeBase "file:\${webComponent}" { } grant codeBase "file:\${ejbComponent}" { } Continue Cancel	
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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

/usr2/WebSphere/AppServer60/profiles/server1/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)

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Security		modules to servers	applica The pli	tion server	s. Also, specify the V guration file (plugin-	Web servers as targets that will serve as router cfg.xml) for each Web server is generated bas	rs for requests to th sed on the application
Environment		<u>Step 3</u> Map virtual hosts for	routed	through it.			
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Monitoring and Tuning		<u>Step 4</u> Summary	Web	Sphere:cell	=boeuxbs32Node01	Cell,node=webserver1_node,server=webserver	1 Apply
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Service integration			Select	Module	URI	Server	
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Select Next to finish Step 2 and go to Step 3.

Install new application (Step 3)

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Servers				Field help
Applications	Specify options for insta	alling enterprise applications and mod	dules.	For field help
Enterprise Applications	Step 1 Select	Map virtual hosts for Web mo	odules	a field label or list
Install New Application Resources Security Environment System administration Monitoring and Tuning Troubleshooting Service integration UDDI	Installation options Step 2 Map modules to servers → Step 3: Map virtual hosts for Web modules Step 4 Summary Previous Next	Specify the virtual host where you contained in your application. Yo same virtual host or disperse the Apply Multiple Mappings Select Web module V dc4asf12 Cancel	u want to install the Web modules nu can install Web modules on the am among several hosts.	marker when the help cursor appears. Page help More information about this page
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No updates are required for Step 3. Select <u>Next</u> to finish Step 3 and go to Step 4.

Install new application (Step 4)

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🗄 Resources	<u>Step 2</u> Map modules to servers	Options	Values	appears.
E Security	Ch 2 M	Use Binary Configuration	No	Page help
Environment	virtual hosts for	Create MBeans for resources	Yes	about this page
System administration	Web modules	Cell/Node/Server	Click here	
Monitoring and Tuning	→ Step 4: Summary	Reload interval in seconds	30	
		Enable class reloading	Yes	
Service integration		Process embedded configuration	No	
		Application name	dc4asf12	
E 0001		Validate Input off/warn/fail	warn	
		Directory to install application		
		Distribute application	Yes	
		Deploy Web services	No	
		Pre-compile JSP	No	
		Deploy enterprise beans	No	
		No application modules were mapped plug-in configuration file (plugin-cfg.xml) generated based on the application modu it, therefore no Web server will route requ	to Web servers. The for each Web server is les which are mapped to ests to this application.	
Done				🧐 Local intranet

Check the settings on this page and select \underline{Finish} 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.

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	Dictionaries	
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Dictionary path		
Dictionaries	Danish German (Old spelling) German (New spelling) Swiss German Spanish French Dutch Traditional Dutch Permissive UK English US English	
Customer specific OK Reset Help	: data	
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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/mqm) and the MQJMS_LIB_ROOT to \${MQ_INSTALL_ROOT}/java/lib.

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Servers		DB2390 JDBC DRIVER PATH		cells:boeuxbs32Node01Cell:n					
Applications Resources		DB2UNIVERSAL JDBC DRIVER NATIVEPATH		cells:boeuxbs32Node01Cell:n					
E Security		DB2UNIVERSAL JDBC DRIVER PATH		cells:boeuxbs32Node01Cell:n					
Environment		DB2 JDBC DRIVER PATH		cells:boeuxbs32Node01Cell:n					
WebSphere Variables Shared Libraries		DEPLOY TOOL ROOT	\${WAS_INSTALL_ROOT}/deploytool/itp	cells:boeuxbs32Node01Cell:n					
Replication domains		DRIVER PATH	\${WAS_INSTALL_ROOT}	cells:boeuxbs32Node01Cell:n					
System administration		INFORMIX JDBC DRIVER PATH		cells:boeuxbs32Node01Cell:n					
Monitoring and Tuning		JAVA HOME	/usr2/WebSphere/AppServer60/java	cells:boeuxbs32Node01Cell:n					
		LOG ROOT	\${USER_INSTALL_ROOT}/logs	cells:boeuxbs32Node01Cell:n					
Service integration UDDI		MOJMS LIB ROOT	\${MQ_INSTALL_ROOT}/java/lib	cells:boeuxbs32Node01Cell:n					
		MQ INSTALL ROOT	/usr/mgm	cells:boeuxbs32Node01Cell:n					
		MSSOLSERVER JDBC DRIVER PATH		cells:boeuxbs32Node01Cell:n					
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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 " mod_ibm_app_server_http.so "

Make sure you have installed the Shared Object (SO) library mod_ibm_app_server_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":

LoadModule was_ap20_module /usr2/WebSphere/Plugins60/bin/mod_was_ap20_http.so WebSpherePluginConfig /usr2/WebSphere/AppServer60/profiles/server1/config/cells/boeuxbs32Node01Cell/nodes/webserver1_node/servers/webserver1/plugincfg.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 or the IMS transaction code prefix, 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.

Additional connections - Microso	ft Internet Explorer		_ D 🔀
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	MSMQ connection configuration	ion	
Host nickname	Host connec	tion data	
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	Conversational IMS Processing		
	Host reply queue		
	Host queue manager		=
	Server queue manager	QE71	
	Server reply queue	REPLY.ASF33I8	
sc1I8mq	Server request queue	ASF33I8.ALIAS	
	XCode prefix		
	XCode	FSNE	
	RACF user ID	IMSuser	
	New Password	•••••	L
	Confirm new password	•••••	

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 /usr2/WebSphere/AppServer60/dc4asfhome/confighome and /usr2/WebSphere/AppServer60/dc4asfhome/datahome

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E Servers	WebSphere Variables > New	Field help
Applications	Substitution variables allow specifying a level of indirection for values defined in the system, such	For field help information, select
Resources	as filesystem roots. Variables can be defined at the server, node, or cell level. When variables in different scopes have the same name, the order of resolution is server variables, then node	a field label or list marker when the
E Security	variables, then cell variables.	help cursor appears.
Environment	Configuration	Page belo
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• Create the three directories

\$(CONFIG_HOME)like /usr2/WebSphere/AppServer60/dc4asfhome/confighome\$(DATA_HOME)/loglike /usr2/WebSphere/AppServer60/dc4asfhome/datahome/log\$(DATA_HOME)/previewlike /usr2/WebSphere/AppServer60/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>
<HTMLPath>xsl</HTMLPath>
<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 Protect access to the Configuration Servlets

To restrict the access to the configuration servlets for DC4ASF two prerequisites must be met:

• "Global Security" of the WebSphere Application Server (WAS) is enabled.

For more information refer on "Global Security" visit the online help of the WebSphere Application Server.

• At least DC4ASF maintenance level 1.2.2.5 is installed.

If the prerequisites are met, follow the steps below:

Open <u>Applications</u> > <u>Enterprise Applications</u> > <u>dc4asf12</u> > <u>Additional properties</u> > <u>Map security roles to users/groups</u>

Select the role "dc4asfconfig" and click the button <u>Lookup users</u>. Type in a limit and a search pattern for users and click the button <u>Search</u>. Select the users and click on the button with the arrows to move them to the "Selected" list. Press <u>OK</u>. Then click the button <u>Lookup groups</u>. Type in a limit and a search pattern for groups and click the button <u>Search</u>. Select those groups to whom the selected users belong to and click on the button with the arrows to move them to the "Selected" list. Press <u>OK</u>. Press again OK.



Save the changes to the master configuration, then Stop and Start the WebSphere Application Server.

To verify the successful implementation of security launch both the DC4ASF configuration servlet DocASFServerConfigServlet and the DC4ASF network configuration servlet DocASFNetworkConfigServlet. You will be prompted to enter your user ID and password.

9 AFP Resources

To make the AFP resources (page segments and overlays) available on the server for resolution during "Print Preview" requests perform the following Steps:

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

\$(APP_INSTALL_ROOT)/boeuxbs32Node01Cell/dc4asf12.ear/dc4asf12.war/AFPResources/pseg

The page segments must have the extension "**psg**" (lower case and the names must be in upper case).

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

\$(APP_INSTALL_ROOT)/boeuxbs32Node01Cell/dc4asf12.ear/dc4asf12.war/AFPResources/ovl

The overlays must have the extension "**oly**" (lower case and the names must be 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 in the Preview AFP Section.

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Press button OK to save your changes.

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".

1. 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

Download the PTF containing a new war file into directory

/usr/swrepository/dc4asf/was60/war/1.2.2.1/ptfs

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/fsn/usr/swrepository/dc4asf/was60/war/1.2.2.1/ptfs/docnnnn.war

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 <u>Next</u> and finally select <u>Finish</u>. 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.