ASF 3.3 with CICS Document Connect for ASF

Installation on Windows 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 D:\Programs\IBM\WebSphere\AppServer6.0

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 D:\Program Files\IBM HTTP Server

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 D:\Programs\IBM\WebSphereMQexpress

4. The Document Connect for ASF (DC4ASF) war file has been installed in the following directory:

D:\Programs\IBM\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:

D:/Programs/IBM/dc4asf/war/dc4asf12.war Enter the context root, for example "/dc4asf12"

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E Servers		Field help
Applications	Specify the EAR, WAR or JAR module to upload and install.	Specify a context
Enterprise ApplicationsInstall New Application	Path to the new application. O Local file system	root if the module being installed is a Web module (.war file).
Resources	Specify path	
E Security	Browse	Page help More information
Environment	Remote file system	about this page
System administration	Specify path D:\Programs\IBM\dc4asf\war\dc4asf12.war Browse	
Monitoring and Tuning	D:\Programs\IBM\dc4ast\war\dc4ast12.war	
	Context root	
Service integration	/dc4asf12 Used only for standalone Web modules (.war files)	
	Next Cancel	
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Select Next. The file "dc4asf12.war" is now loaded on the server.

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Enterprise ApplicationsInstall New Application	Generate Default Bindings	
Resources	Override: O Do not override existing bindings	
Environment	Override existing bindings	
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Select <u>Next</u>.

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

D:\Programs\IBM\WebSphere\AppServer6.0\profiles\default\installedApps\

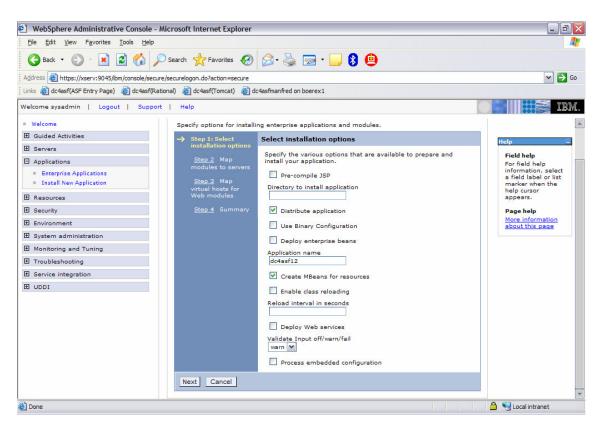
- 'xxxxx' is the cell name and
- 'dc4asf12' is the application name.

Application Name:

Specify a unique name, for example 'dc4asf12'.

Class Reloading:

Do not enable class reloading.



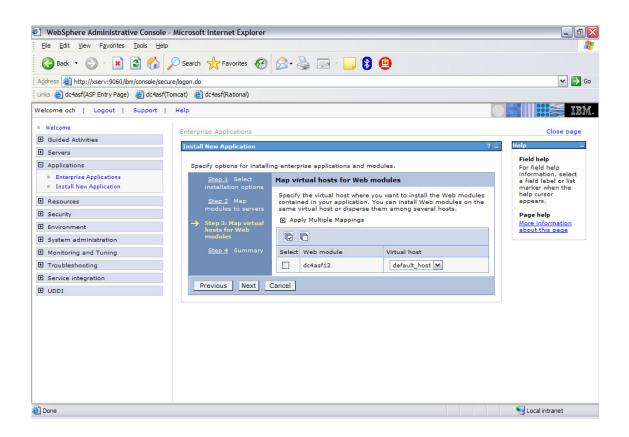
Select Next to finish Step 1 and go to Step 2.

Install new application (Step 2)

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Applications	Sp	ecify options for installing	ng enterp	rise applic	ations and modules.		
 Enterprise Applications Install New Application 		<u>Step 1</u> Select installation options	Map m	odules to	servers		
Resources	-	 Step 2: Map modules to servers 	modul	es containe	ed in your application	rvers or clusters of application servers where you . Modules can be installed on the same application	tion server or
Security			routers	for reques	sts to this application	servers. Also, specify the Web servers as targets n. The plug-in configuration file (plugin-cfg.xml)	
Environment		<u>Step 3</u> Map virtual hosts for	-	erated base ers and Ser		s which are routed through it.	
System administration		Web modules	Web	Sphere:cel	=xservNode01Cell,n	ode=xservNode01,server=server1	
Monitoring and Tuning		<u>Step 4</u> Summary	Web	Sphere:cel	l=xservNode01Cell,n	ode=webserver1_node,server=webserver1	Apply
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		Previous Next C	Cancel				
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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)

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Specify options for installi	ng enterprise applications and modules.		
Step 1 Select	Summary		Help -
	Summary of installation options		Field help
<u>Step 2</u> Map modules to servers	Options	Values	For field help information, select
	Use Binary Configuration	No	a field label or list marker when the
	Create MBeans for resources	Yes	help cursor
Web modules	Cell/Node/Server	Click here	appears.
-> Step 4: Summary	Reload interval in seconds	30	Page help
	Enable class reloading	Yes	More information about this page
	Process embedded configuration	No	
	Application name	dc4asf12test	
	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	
	installation options <u>Step 2</u> Map modules to servers <u>Step 3</u> Map virtual hosts for Web modules	installation options Summary of installation options Step 2 Map modules to servers Options Step 3 Map virtual hosts for Web modules Create MBeans for resources Step 4: Summary Reload interval in seconds Enable class reloading Process embedded configuration Application name Validate Input off/warn/fail Distribute application Distribute application Daploy Web services Pre-compile JSP	Installation options Summary of installation options Step 2 Map modules to servers Options Values Step 3 Map virtual hosts for Web modules Use Binary Configuration No Step 4: Summary Create MBeans for resources Yes Process embedded configuration No Application name dc4asf12test Validate Input off/warn/fail warn Directory to install application Distribute application Distribute application Yes Deploy Web services No

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.

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Spell check enabled		
Dictionary path	D:\Programs\IBM\WebSphere\AppServer6.0 \profiles\default\installedApps\xservNode01Cell\x6v1224.ear\dc4asf12.war\interna	ls\dictionaries
Dictionaries	Danish German (Old spelling) German (New spelling) Swiss German Spanish French Dutch Traditional Dutch Permissive UK English US English	
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OK Reset	Help	~
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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. D:\Programs\IBM\WebSphereMQexpress) and the MQJMS_LIB_ROOT to \${MQ_INSTALL_ROOT}/java/lib.

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Applications		DC4ASF_CONFIGHOME	*···	cells:xservNode01Cell:no
Resources Security		DEPLOY TOOL ROOT	\${WAS_INSTALL_ROOT}/deploytool/itp	cells:xservNode01Cell:no
E Environment		DRIVER_PATH	\${WAS_INSTALL_ROOT}	cells:xservNode01Cell:no
 Virtual Hosts WebSphere Variables 		INFORMIX JDBC DRIVER PATH		cells:xservNode01Cell:no
 Shared Libraries Replication domains 		JAVA HOME	D:\Programs\IBM\WebSphere\AppServer6.0/java	cells:xservNode01Cell:no
⊡ Naming		LOG ROOT	\${USER_INSTALL_ROOT}/logs	cells:xservNode01Cell:no
System administration		MQJMS LIB ROOT	\${MQ_INSTALL_ROOT}/java/lib	cells:xservNode01Cell:no
 Monitoring and Tuning Troubleshooting 		MQ INSTALL ROOT	D:\Programs\IBM\WebSphereMQexpress	cells:xservNode01Cell:no
		MSSQLSERVER JDBC DRIVER PATH		cells:xservNode01Cell:no
UDDI		ORACLE JDBC DRIVER PATH		cells:xservNode01Cell:no
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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 Dynamic Link Library (DLL) "mod_was_app20_http.dll".

Make sure you have installed the Dynamic Link Library (DLL) mod_was_app20_http.dll. This DLL 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 dynamic link library (DLL) points to the configuration file "plugin6-cfg":

 $\label{logith} LoadModule\ was_ap20_module\ ""D:\Programs\IBM\WebSphere\AppServer6.0PlugIn\bin\mod_was_ap20_http.dll" WebSpherePluginConfig\ "D:\Programs\IBM\HTTPServer6.0\conf\plugin6-cfg.xml"$

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 your host reply queue (optional), host queue manager (optional), server queue manager, server reply queue, server request queue, the CICS program name FSNWRFRC, the defined RACF user ID used for CICS 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 CICS 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 CICS system.

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Address http://xserv/dc4asf12/DocA	SFNetworkConfigProcessServlet		💌 🄁 Go
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	CICS program	FSNWRFRC	
	RACF user ID	CIuser	
	New Password	•••••	
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	MQ Wait interval	500	
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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 D:\Programs\IBM\WebSphere\AppServer6.0\dc4asfhome\confighome and D:\Program\IBM\WebSphere\AppServer6.0\dc4asfhome\datahome

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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
Security	variables, then cell variables.	help cursor appears.
Environment	Configuration	Page help
 Virtual Hosts WebSphere Variables Shared Libraries Replication domains Naming 	General Properties + Name DC4ASF_CONFIGHOME	More information about this page
System administration	Value 5.0\dc4asfhome\confighome	
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• Create the three directories

\$(CONFIG_HOME)
for example D:\Programs\IBM\WebSphere\AppServer6.0\dc4asfhome\confighome
\$(DATA_HOME)/log
for example D:\Programs\IBM\WebSphere\AppServer6.0\dc4asfhome\datahome\log
\$(DATA_HOME)/preview
for example D:\Programs\IBM\WebSphere\AppServer6.0\dc4asfhome\datahome\preview

• Copy the configuration files

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

From \$(APP_INSTALL_ROOT)\xservNode01Cell\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.

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Bervers Applications Enterprise Applications Install New Application Resources Security Global security SSL Environment System administration Monitoring and Tuning Troubleshooting Service integration UDDI	Interprise Applications > x6v1225 > Map security roles to users/groups > Look up users or groups Specifies whether to look up users and/or groups. The following roles are mapped to the items in the selected list. • dc4asfconfig • search for users or groups, type in a limit (number) and a search pattern (such as a*) and click the "Search" button: limit (number of items) 50 Search String • Select users or groups below in the "Available" list. Move them to the "Selected" list by clicking on the >> button. Available: Mapping • Selected:	Field help For field help information, select a field label or list marker when the help cursor appears. Page help More information about this page
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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

D:\Program Files\IBM\IBM Document Connect for ASF\wwww\AFPResources\pseg

The page segments must have the extension "psg".

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

D:\Program Files\IBM\IBM Document Connect for ASF\www\AFPResources\ovl

The overlays must have the extension "oly".

 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

Copy the zip file containing the maintenance into a directory:

D:\Programs\IBM\dc4asf\ptf

Open the WebSphere Administrative Console:

Open Application > Enterprise Application

<u>Stop</u> the applicable application, for example "dc4asf12". Select application "dc4asf12" and enter <u>Update</u>.

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Guided Activities	Enterprise Applications 7 –								
E Servers		E Messages	5						
Applications	Application dc4asf12 on server server1 and node xservNode01 stopped successfully.								
Enterprise ApplicationsInstall New Application	Enterprise Applications								
Resources	Lists installed applications. A single application can be deployed onto multiple servers.								
1 Security	Preferences								
Environment	Start Stop Install Uninstall Update Rollout Update Remove File Export							Export DDL	
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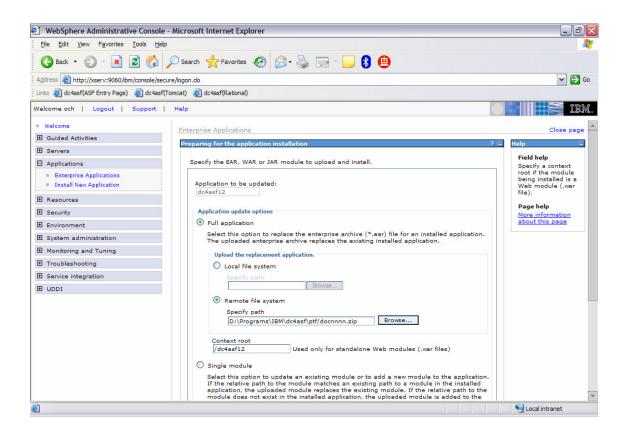
Enter the path (local path or server path) where the new DC4ASF zip file is located:

D:\Programs\IBM\dc4asf\ptf/docnnn.zip

Enter the context root: "/dc4asf12"

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 dc4asf. Select <u>Start</u> to restart the application.