ASF 3.3 with IMS Document Connect for ASF

Installation on Windows Server Using WebSphere Application Server V5.1

Server-to-Host Connection using WebSphere MQ

Edition: 1.1

31 March 2005

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1 Prerequisites

1. WebSphere Application Server (WAS) V5.1 has been installed, is operational, and has been started

Note: The installation path is assumed to be D:\Program Files\WebSpheres

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 (or WebSphere MQ Express) has been installed and the connections to the host (IMS) are available. This means 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 D:\MQExpress
- 4. Document Connect for ASF (DC4ASF) has been installed in the following directory:

D:\Program Files\IBM\IBM Document Connect for ASF

2 Name Space Bindings

Two name space bindings must be created. To do this, open the WebSphere Administrative Console:

Open <u>Environment</u> > <u>Naming</u> > <u>Name Space Bindings</u>

Note: Ensure you are in the Server scope.

- 2.1 Define Name Space Binding for DC4ASFINST
 - a) Press button New to create a new Binding
 - b) Choose type String for the binding and press button Next
 - c) Enter
 - the Binding Identifier
 - (for example DC4ASFINST)
 - Name in Name Space
 - (for example resources/asf/dc4asfinst) - and the path to your ASF installation directory
 - (D:\Program Files\IBM\IBM Document Connect for ASF)
 - d) Press button Next to go to the Summary Panel
 - e) On the Summary Panel press button Finish to complete the Name Space Binding.

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B55M852L B Servers Applications B Resources B Security	Use this page to configu	are a name binding of a constant string value. \mathbb{I}		
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Update Web Server Plugin Virtual Hosts Manage WebSphere Variable Shared Libraries	Scope	 cells/B55M852L/nodes/B55M852L/servers/server1 	The scope of the configured binding. This value indicates the configuration location for the namebindings.xml file.	
Naming <u>Name Space Bindings</u>	Binding Type	* String	The type of binding configured. Possible choices are String, EJB, CORBA, and Indirect.	
CORBA Naming Service U: CORBA Naming Service G	Binding Identifier	DC4ASFINST	The name given to uniquely identify this configured binding.	
System Administration Troubleshooting	Name in Name Space	★ resources/asf/dc4asfinst	I The name used for this binding i the name space. Simple or compound name relative to portion of the name space where this binding is configured.	ו
	String Value	 D:\Program Files\IBM\IBM Documen 	The string to be bound into the name space	-
Done				

2.2 Define Name Space Binding for DC4ASFCONF

- a) Press button New to create a new Binding
- b) Choose type String for the binding and press button Next
- c) Enter
 - the Binding Identifier
 - (for example DC4ASFCONF),
 - Name in Name Space
 - (for example resources/asf/dc4asfconf)
 - and the path to your ASF configuration file
 - (D:\Program Files\IBM\IBM Document Connect for ASF\config\DocConfiguration.xml)
- d) Press button Next to go to the Summary Panel
- e) On the Summary Panel press button Finish to complete the Name Space Binding.



Save the two name space bindings created in the master configuration.

3 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:

 $D:\Program Files\IBM\IBM \ Document \ Connect \ for \ ASF\war\dc4asf.war$

Enter the context root, for example /dc4asf

Press button <u>Next</u>. The file dc4asf.war is now loaded on the server.



Press button Next.



Press button Next.

Install new application (Step 1)

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

Installation directory:

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

D:\Program Files\WebSphere\AppServer\installedApps\B55M852L\dc4asf.ear

where

- 'B55M852L is the cell name and
- 'dc4asf' is the application name.

Application Name:

Specify a unique name, for example 'dc4asf'.

Class Reloading:

Specify a value in seconds, for example '30'.

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	Install New Application					
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Enterprise Applications	→ Step 1 : Provide options to perform the installation					
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Troubleshooting	Distribute Application					
	Use Binary Configuration					
	Deploy EJBs					
	Application Name	dc4asf				
	Create MBeans for Resources					
	Enable class reloading					
	Reload Interval	30				
Done						

Press button <u>Next</u> to finish Step 1 and go to Step 2.

Install new application (Step 2)

Enter **resources/asf/dc4asfinst** for the InstallPath Reference Binding (JNDI Name) and **resources/asf/dc4asfconf** for the ConfigPath Reference Binding (see "Name Space Bindings").



Press button Next to finish Step 2 and go to Step 3.

Install new application (Step 3)

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	→ Step 3 : Map virtual hosts for web modules				
 Environment System Administration 	Specify the virtual host where you want to install the Web modules contained in your application. Web modules can be installed on the same virtual host or dispersed among several hosts.	s			
Troubleshooting	Apply Multiple Mappings				
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Previous Next Cancel					
Step 4 Map modules to application servers					
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No updates are required for Step 3. Press button <u>Next</u> to go to Step 4.

Install new application (Step 4)

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B55M852L ■ Servers ■ Applications Install New Applications ■ Resources ■ Security ■ Environment ■ System Administration ■ Troubleshooting	Allows installation of Enterprise Applications and Module Step 1 Provide options to perform the installation Step 2 Map resource references to resources Step 3 Map virtual hosts for web modules Image: Step 4: Map modules to application servers Specify the application server where you want to install modules contained in your application. Modules can be installed on the same server or dispersed among several servers. Image: WebSphere.cell=B55M852L,node=B55M852L,server=server1	
	Clusters and Servers: Apply	
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	dc4asf dc4asf.war,WEB-INF/web.xml WebSphere:cell=B55M852L,node=B55M852L,server=server1	
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No updates are required for Step 4. Press button Next to go to Step 5.

Install new application (Step 5)

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	Create MBeans for Resources	Yes			
	Enable class reloading	Yes			
	Deploy EJBs	No			
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Check the settings on this page and press button <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 dc4asf application, and select <u>Start</u> to start the application.

4 Spellcheck Installation

To activate spell check you must set the Classpath variable and define a LIBPATH variable to the WAS environment.

Open <u>Servers > Application Servers > Server name > Process Definition > Java Virtual Machine</u>

Add the file *docstatic.jar* delivered with DC4ASF to the Classpath (D:\Program Files\IBM\IBM Document Connect for ASF\bin\java\docstatic.jar).

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Press button Apply first and then press button OK.

Open <u>Servers > Application Servers > Server name > Process Definition > Environment Entries</u>

Create the variable **LIBPATH**. Set its value to the Document Connect for ASF shared library path (D:\Program Files\IBM\IBM Document Connect for ASF\bin).

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Press button <u>Apply</u> first and then press button <u>OK</u>.

<u>Save</u> the changes to the master configuration.

5 Enable MQ Connection

To enable the MQ connection between server and host you must change the Classpath and the LIBPATH variable in the WAS environment.

Open <u>Servers</u> > <u>Application Servers</u> > <u>Server name</u> > <u>Process Definition</u> > <u>Java Virtual Machine</u>

Add the files *com.ibm.mq.jar* and *com.ibm.mqjms.jar* delivered with WebSphere MQ or WebSphere MQ Express to the Classpath (e.g.

D:\MQExpress\Java\lib\com.ibm.mq.jar;D:\MQExpress\Java\lib\com.ibm.mqjms.jar;)

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Press button <u>Apply</u> first and then press button <u>OK</u>.

Open <u>Servers > Application Servers > Server name > Process Definition > Environment Entries</u>

Add the WebSphere MQ shared library path (D:\MQExpress\Java\lib) to the value for the variable LIBPATH.

Note: Separate the path values with a semicolon.



Press button Apply first and then press button OK.

<u>Save</u> the changes to the master configuration.

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

6 HTTP Server Changes

Configure the WebSphere PLUGIN

Using Dynamic Link Library (DLL) "mod_ibm_app_server_http.dll".

Make sure you have installed the Dynamic Link Library (DLL) mod_ibm_app_server_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.

Modify the configuration file "plugin-cfg.xml"

Generate the plugin configuration file "plugin-cfg.xml" using the WebSphere Administrative Console:

Open <u>Environment</u> > <u>Update Web Server Plugin</u>

Press button OK to generate the file plugin-cfg.xml .

Note: Usually the xml file is placed in the D:\Program Files\WebSphere\AppServer\config\cells directory of the IBM WebSphere Application Server installation.

Copy the file "plugin-cfg.xml" into the "conf" directory of the IBM HTTP Server. Open the copy with an editor and modify it as follows:

a) Locate the following string (which may be customized with your installation values):

<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/*"/>

Note: dc4asf is the context root as described in "Preparing for the application installation".

b) Insert the text string "servlet/" before the asterisk:

<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/servlet/*"/>

c) Add the following lines after the line specified in b) above:

<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/html/*"/> <Uri AffinityCookie="JSESSIONID" Name="/dc4asf/javascript/*"/> <Uri AffinityCookie="JSESSIONID" Name="/dc4asf/java/*"/> <Uri AffinityCookie="JSESSIONID" Name="/dc4asf/css/*"/> <Uri AffinityCookie="JSESSIONID" Name="/dc4asf/preview/*"/> <Uri AffinityCookie="JSESSIONID" Name="/dc4asf/preview/*"/> <Uri AffinityCookie="JSESSIONID" Name="/dc4asf/DocASFServerConfigServlet/*"/> <Uri AffinityCookie="JSESSIONID" Name="/dc4asf/DocASFNetworkConfigServlet/*"/> <Uri AffinityCookie="JSESSIONID" Name="/dc4asf/DocASFNetworkConfigServlet/*"/> <Uri AffinityCookie="JSESSIONID" Name="/dc4asf/DocASFNetworkConfigServlet/*"/> <Uri AffinityCookie="JSESSIONID" Name="/dc4asf/DocASFNetworkConfigProcessServlet/*"/>

Note:

You will find these lines in the file plugin-cfg.xml.add delivered with DC4ASF in the /install directory.

d) Save the file

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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) Add the following lines:

Alias /dc4asf/	"D:/Program Files/IBM/IBM Document Connect for ASF/www/"
Alias /dc4asf/transfer/	"D:/Program Files/IBM/IBM Document Connect for ASF/www/transfer/"
Alias /dc4asf/help/	"D:/Program Files/IBM/IBM Document Connect for ASF/www/helpconfig/"
Alias /dc4asf/helpconfig/	"D:/Program Files/IBM/IBM Document Connect for ASF/www/helpconfig/"
Alias /dc4asf/inages/	"D:/Program Files/IBM/IBM Document Connect for ASF/www/images/"
Alias /dc4asf/astcartom/	"D:/Program Files/IBM/IBM Document Connect for ASF/www/images/"
Alias /dc4asf/custom/	"D:/Program Files/IBM/IBM Document Connect for ASF/www/untages/
Alias /dc4asf/custom/	"D:/Program Files/IBM/IBM Document Connect for ASF/www/custom/"
Alias /dc4asf/samples/	"D:/Program Files/IBM/IBM Document Connect for ASF/www/samples/"

Note:

You will find these lines in the file http.conf.add delivered with DC4ASF in the /install directory.

c) Restart the HTTP server to activate the changes.

7 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), Windows queue manager, the input queue, the output queue, the IMS transaction code, the defined User ID used for IMS logon, the corresponding password, and the MQ wait interval.

Press button OK to save your changes.

Notes:

- The password specified will be encrypted and stored in file "hnp.txt" in the /config subdirectory.
- If you do not specify the host reply queue (which is a remote queue in z/OS which corresponds to the server output queue) and the host queue manager, you need a transmission queue in z/OS with the queue manager name in Windows (REXXQ).

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	Conversational IMS Processing			
	Host reply queue			
	Host queue manager			
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Stop and Start your application using the WebSphere Administrative Console.

8 Installing a second Application

The steps above describe how to install the application dc4asftest in WebSphere Application Server.

IBM recommends to generate a second application instance of Document Connect for ASF for use by administrators, for example "dc4asftest".

To create a second instance, execute the batch file "docinstusr.bat" available in directory D:/Program Files/IBM/IBM Document Connect for ASF/install.

When being prompted specify an alternate installation path, for example

"D:/Program Files/IBM/IBM Document Connect for ASF/dc4asftest"

After successful completion perform the following steps using the WebSphere Administrative Console:

1. Add two name space bindings as described in "Name Space Bindings" with different values, for example:

Binding Identifier Name in Name Space Path	DC4ASFINSTTEST resources/asf/dc4asfinsttest "D:/Program Files/IBM/IBM Document Connect for ASF/dc4asftest"		
Binding Identifier	DC4ASFCONFTEST		
Name in Name Space	resources/ast/dc4astconttest		
Path	"D:/Program Files/IBM/IBM Document Connect for		
ASF/dc4asftest/config/DocConfiguration.xml"			

2. Perform the steps described in "Installation of the application" with the following changes:

In paragraph "Preparing for the application installation", specify the following path for the location of the war file:

"D:/Program Files/IBM/IBM Document Connect for ASF/dc4asftest/war/dcf4asf.war"

and specify the following path for context root:

/dc4asftest

In paragraph "Install new application (Step 1)", use "dc4asftest" as the application name

In paragraph "Install new application (Step 2)", use the following new name space bindings:

resources/asf/dc4asfinsttest

resources/asf/dc4asfconftest

Now perform the steps described in "HTTP Server Changes" using the context root /dc4asftest.

The file plugin-cfg.xml will then contain the following lines:

```
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/html/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/st/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/javascript/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/java/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/css/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/preview/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/DocASFServerConfigServlet/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/DocASFNetworkConfigServlet/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/DocASFNetworkConfigProcessServlet/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/DocASFFileServlet/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/servlet/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/html/*"/><Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/xsl/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/javascript/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/java/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/css/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/preview/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/DocASFServerConfigServlet/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/DocASFNetworkConfigServlet/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/DocASFNetworkConfigProcessServlet/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/DocASFFileServlet/*"/>
```

The file http.conf will then contain the following lines:

 Alias /dc4asf/
 "D:/Program Files/IBM/IBM Document Connect for ASF/www/"

 Alias /dc4asf/transfer/
 "D:/Program Files/IBM/IBM Document Connect for ASF/www/transfer/"

 Alias /dc4asf/help/
 "D:/Program Files/IBM/IBM Document Connect for ASF/www/transfer/"

 Alias /dc4asf/help/
 "D:/Program Files/IBM/IBM Document Connect for ASF/www/help/"

 Alias /dc4asf/images/
 "D:/Program Files/IBM/IBM Document Connect for ASF/www/helpconfig/"

 Alias /dc4asf/custom/
 "D:/Program Files/IBM/IBM Document Connect for ASF/www/images/"

 Alias /dc4asf/samples/
 "D:/Program Files/IBM/IBM Document Connect for ASF/www/samples/"

 Alias /dc4asf/
 "D:/Program Files/IBM/IBM Document Connect for ASF/www/samples/"

Alias /dc4asf/ransfer/ Alias /dc4asf/help/ Alias /dc4asf/helpconfig/ Alias /dc4asf/images/ Alias /dc4asf/custom/ Alias /dc4asf/samples/ "D:/Program Files/IBM/IBM Document Connect for ASF/dc4asftest/www/" "D:/Program Files/IBM/IBM Document Connect for ASF/dc4asftest/www/transfer/" "D:/Program Files/IBM/IBM Document Connect for ASF/dc4asftest/www/helpconfig/" "D:/Program Files/IBM/IBM Document Connect for ASF/dc4asftest/www/images/" "D:/Program Files/IBM/IBM Document Connect for ASF/dc4asftest/www/images/" "D:/Program Files/IBM/IBM Document Connect for ASF/dc4asftest/www/custom/"

9 Applying Maintenance

Launch the delivered Windows executable program to install a maintenance update. Follow the installation wizard and select "repair" to update DC4ASF.

Use the batch program "docinstusr.bat" available in directory "D:/Program Files/IBM/IBM Document Connect for ASF/install" to apply the update to the appropriate application, for example dc4asftest.

Open the WebSphere Administrative Console:

Open Application > Enterprise Application

Select application "dc4asftest" and select Update.

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

D:/Program Files/IBM/IBM Document Connect for ASF/dc4asftest/war/dc4asf.war

Enter the context root: /dc4asftest

Note:

The context root must be the same as the context root specified during installation (see "Preparing for the application installation"). If you do not remember the context root of your installation, check the file plugin-cfg.xml:

```
<Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/servlet/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asftest/html/*"/>
...
```

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On each of the next panels press button \underline{Next} and finally press button \underline{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 dc4asftest. Select <u>Stop</u> and then select <u>Start</u> to restart the application.