

5722-XH2 V5R3 iSeries Access for Web

Apache Software Foundation (ASF) Tomcat - Setup/Configuration Example

First Edition (January 2004)

This edition supplements the V5R3 iSeries Access for Web InfoCenter documentation.

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About this information

The information in this document is a supplement to the information available in the IBM iSeries InfoCenter documentation.

The V5R3 iSeries Access for Web InfoCenter documentation is available in various language translations from the iSeries Access for Web website:

<http://www.ibm.com/servers/eserver/iseries/access/web/>

The V5R3 iSeries Access for Web InfoCenter documentation covers topics such as:

- Licensing information
- An installation/setup checklist that addresses:
 - Hardware/Software/web browser requirements.
 - Installation of iSeries Access for Web to the iSeries server.
 - Verification of PTFs.

- Configuration of iSeries Access for Web for the web environment on the iSeries server.
- Using iSeries Access for Web
- Administration and customization of iSeries Access for Web

This document assumes you have been using the setup checklist in Chapter 4 of the iSeries Access for Web InfoCenter documentation. The checklist step #8 should have pointed you to this document for an example of:

Creating and Starting HTTP servers and Web application servers

If you have not been using the setup checklist in Chapter 4 of the iSeries Access for Web InfoCenter documentation, you should refer to that documentation before continuing with the information below.

General information

- You should read this information to step through an example that creates and starts an HTTP web server and an ASF Tomcat web application server.
- This information assumes that the system administrator will install and configure the iSeries server.
- In order to configure the iSeries server, you need a security level of Security Officer (*SECOFR). This is the highest level of security on the iSeries server.
- Familiarity with the iSeries server is strongly recommended.
- Familiarity with the iSeries server web-serving environment is strongly recommended.
- V5R3 iSeries Access for Web requires V5R2 and later OS/400 iSeries servers.
- The example information in this document assumes the latest PTFs have been loaded and applied for the following and their dependent software products:
 - 5722-DG1 IBM HTTP Server for iSeries

Note: The ASF Tomcat web application server is part of the 5722-DG1 product.

Getting Started

Overview

This document assumes you have been using the setup checklist in Chapter 4 of the iSeries Access for Web InfoCenter documentation. The checklist step #8 should have pointed you to this document for an example of:

Creating and Starting HTTP servers and Web application servers

If you have not been using the setup checklist in Chapter 4 of the iSeries Access for Web InfoCenter documentation, you should refer to that documentation before continuing with the information below. To begin using iSeries Access for Web servlets, the servlet web environment must be setup on the

iSeries server. The sections below provide an example of how to set up the servlet web environment.

Web serving setup example

The information below will guide you through the process of creating an ASF Tomcat web application server and an HTTP web server.

The configuration instructions documented below are only an example. You may modify the configuration values if you wish. If you are unfamiliar with the web serving environment, it is highly recommended that you use the configuration values documented below. As you become more experienced with the web environment on your iSeries server, you can create additional web serving environments where you can modify the configuration values.

Follow the sections in the order outlined below.

Creating an HTTP server and Web application server

The instructions below assume steps 1 – 7 of the setup checklist in Chapter 4 of the iSeries Access for Web InfoCenter documentation have been completed. If you have not completed steps 1 – 7, it is highly recommended that those steps be completed before continuing with the information below.

The instructions below assume the latest PTFs have been loaded and applied to the iSeries server for the following software products:

5722-DG1 IBM HTTP server for iSeries

(<http://www.ibm.com/servers/eserver/series/software/http/>)

Use the instructions below to create an ASF Tomcat web application server and HTTP web server.

1. Sign on to a 5250 session. The user profile you use must have security officer authority.
2. Run the server command:
STRTCPSVR *HTTP HTTPSVR(*ADMIN)
3. Open a web browser to:
http://<server_name>:2001
4. Click the link:
IBM HTTP Server for iSeries or IBM Web Administration for iSeries
5. Click the tab labeled:
Manage
6. Click the sub-tab labeled:
ASF Tomcat Servers

7. Under “Tomcat Tasks and Wizards”, click the link labeled:
Create ASF Tomcat Server
8. The screen will be refreshed. On the Out-of-Process Engine Creation page, type the following in the ASF Tomcat server name field:
iwatomcat
9. Click the button:
Next
10. On the Out-of-Process Engine Configuration page, make note of the values in the following fields. You will need these values when you configure iSeries Access for Web for this ASF Tomcat server:

Server userid defaulted to: QTMHHTTP
ASF Tomcat home defaulted to: /ASFTomcat/iwatomcat

11. Click the button:
Next
12. On the Out-of-Process Engine Communications Settings page:

IP address field should be set to: **All addresses**
Port field should be set to: **5099**

(Note: Please verify that port 5099 is available for use. Use the NETSTAT *CNN server command to list ports that are currently in use on your server. Check the listed ports to verify 5099 is not already being used by some other program. If 5099 is already being used, specify a different value for this field.)

13. Click the button:
Next
14. On the Out-of-Process Application Context Definition page, click the button:
Add
15. In the URL path field, type:
/webaccess
16. In the Application base directory field, type:
webapps/webaccess
17. Click the button:
Continue
18. An error message will be displayed which can be ignored. The error message text should be similar to:

“Note: Cannot find a WEB-INF/web.xml configuration file under the application base directory /ASFTomcat/iwatomcat/webapps/webaccess. Use the "Configure" button to create one,

unless you will be installing a .jsp or .war file.”

19. Click the button:
Next

20. Click the button:
Finish

Congratulations, you have successfully created an ASF Tomcat web application server named **iwatomcat**.

The next task is to create an HTTP server that will connect to this ASF Tomcat server.

21. Under “Common Tasks and Wizards”, click the link labeled:
Create HTTP Server
22. On the Create HTTP Server page, type the following in the Server name field:
iwatomcat
23. Click the button:
Next
24. On the page containing the Server root field, click the button:
Next
25. On the page containing the Document root field, click the button:
Next
26. On the page containing the IP Address and Port fields:

IP address field should be set to: **All addresses**

Port field should be set to: **2016**

(Note: Please verify that port 2016 is available for use. Use the NETSTAT *CNN server command to list ports that are currently in use on your server. Check the listed ports to verify 2016 is not already being used by some other program. If 2016 is already being used, specify a different value for this field.)

27. Click the button:
Next
28. On the page asking about the access log, select the Yes radio button, click the button:
Next
29. On the page asking how long to keep the log files, make the selection you prefer, click the button:
Next
30. On the summary page, click the button:
Finish

Congratulations, you have successfully created an HTTP server named **IWATOMCAT**.

The next task is to modify the HTTP server configuration so it will connect to the ASF Tomcat server named iwatomcat.

31. Under Server Properties, click the link labeled:
ASF Tomcat Settings
32. Click the checkbox labeled:
Enable servlets for this HTTP server
33. Uncheck the checkbox labeled:
Enable an “in-process” servlet engine
34. Click the checkbox labeled:
Enable “out-of-process” servlet engine connections
35. Click the button:
Add
36. In the Hostname:Port field, change the **8099** to **5099**. If you specified a different port number for 5099 in the earlier step, you should specify that port number here.
37. In the URLs (Mount points) field, type:
/webaccess/*
38. Click the button:
Continue
39. Click the button:
OK

Congratulations, you have successfully completed the setup required for iSeries Access for Web to be configured for the ASF Tomcat web serving environment.

You should now return to the setup checklist in Chapter 4 of the iSeries Access for Web InfoCenter documentation:

The InfoCenter documentation will have you run the CFGACCWEB2 command. For the “Tomcat server name” parameter of that command, you should specify “iwatomcat” because that is the name of the ASF Tomcat server you created using this document.

- An earlier step instructed you to make note of the following configuration values. You will also need to input these values into the CFGACCWEB2 command that the InfoCenter documentation will instruct you to run.
 1. Server userid defaulted to: **QTMHHTTP**
 2. ASF Tomcat home defaulted to: **/ASFTomcat/iwatomcat**
- After the InfoCenter documentation instructs you to run CFGACCWEB2, you are instructed to

start the HTTP server and the ASF Tomcat server. You can do that using these 2 commands:

1. STRTCPSVR *HTTP HTTPSVR(IWATOMCAT)
2. STRTCPSVR *ASFTOMCAT TOMCATSVR(IWATOMCAT)

- When the InfoCenter documentation instructs you to access the iSeries Access for Web home page using http://your_server_name:port/webaccess/iWAHome, you would specify http://your_server_name:2016/webaccess/iWAHome.

Additional information

IBM HTTP Server for iSeries (includes ASF Tomcat web application server)

For additional information on the IBM HTTP Server for iSeries, refer to the following web site:

<http://www.ibm.com/servers/eserver/series/software/http/>

iSeries Access for Web

For additional information on iSeries Access for Web, refer to the following website:

<http://www.ibm.com/servers/eserver/series/access/web/>
