

# 5722-XH2 V5R3 iSeries Access for Web

## WebSphere Application Server V5.1 for iSeries (“Base and Network Deployment Editions”) - 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
  - 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.
- Administration and customization of iSeries Access for Web

iSeries Access for Web support for WebSphere Application Server V5.1 for iSeries was added after the V5R3 iSeries Access for Web InfoCenter documentation was written so the InfoCenter documentation does not specifically address the WebSphere V5.1 environment. This document was written to supplement the InfoCenter documentation.

This document assumes you have been using the setup checklist in Chapter 4 of the iSeries Access for Web InfoCenter documentation. The checklist steps #8 and #10 should have pointed you to this document for an example of:

- Creating and Starting HTTP servers and Web application servers
- Configuring iSeries Access for Web to run in the web application server.

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

- 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 web-serving environment is strongly recommended.
- Installation and configuration is necessary only on the iSeries server. Workstations only require a connection to the iSeries server and a web browser.
- 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
  - 5733-W51 IBM WebSphere Application Server V5.1 for iSeries

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## Getting Started

### License Information

iSeries Access for Web is a licensed program product. All components of iSeries Access for Web require an iSeries Access (5722-XW1) license before you can use them.

For more information, refer to the V5R3 iSeries Access for Web InfoCenter documentation which is available in various language translations from the iSeries Access for Web website:

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

## Overview

This document assumes you have been using the setup checklist in Chapter 4 of the iSeries Access for Web InfoCenter documentation. The checklist steps #8 and #10 should have pointed you to this document for an example of:

- Creating and Starting HTTP servers and Web application servers
- Configuring iSeries Access for Web to run in the web application server.

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 and configure iSeries Access for Web for that environment.

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## Deploying iSeries Access for Web

The information below will guide you through the process of creating a WebSphere web application server, an HTTP web server, and configuring iSeries Access for this new web environment.

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 and Starting 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/iseries/software/http/>)
- 5733-W51 WebSphere Application Server V5.1 for iSeries  
(<http://www.ibm.com/servers/eserver/iseries/software/websphere/wsappserver/>)

Use the instructions below to create a WebSphere instance/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:  
**Setup**
6. Under “Common Tasks and Wizards”, click the link labeled:  
**Create Application Server**
7. The screen will be refreshed. On the Create Application Server page, select the radio button for:  
**WebSphere Application Server, V5.1 (base). This server is a full function J2EE compliant application server.**
8. Click the button:  
**Next**
9. On the Specify Application Server Name page, type the following exactly as shown in the Application server name field:  
**iwa51base**
10. Click the button:  
**Next**
11. On the Select HTTP Server Type page, select the radio button for:  
**Create a new HTTP server (powered by Apache)**
12. Click the button:  
**Next**
13. On the Create a new HTTP server (powered by Apache) page, type the following in the HTTP server name field:  
**iwa51base**  
  
(Note: We are using the same name for both the WebSphere instance/application server and the HTTP server so that it is easy to see that the two servers are associated with each other. It is OK to use the same name for each because they are two different types of servers running in different subsystems.)
14. Type the following in the Port field:  
**2040**

(Note: Please verify that port 2040 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 2040 is not already being used by some other program. If 2040 is already being used, specify a different value for this field.)

15. Click the button:  
**Next**
16. On the Specify Internal Ports Used by the Server page, the First port in range field has been defaulted to a port number. The wizard has verified the default value is available for use. Do not change the default value unless you are sure the value you type is available for use.
17. Click the button:  
**Next**
18. On the Select Business and Sample Applications page, do not change any of the default selections unless you are sure you need or desire to have those applications installed.
19. Click the button:  
**Next**
20. On the Summary page, click the button:  
**Finish**
21. The page will be refreshed showing that your web environment is being created. Wait for the create step to complete before continuing. When the create step completes, the status will be updated to Stopped.

Congratulations, you have successfully created a WebSphere instance/application server named **iwa51base** and an HTTP server named **IWA51BASE**.

### **Configuring iSeries Access for Web to run in the web application server**

The instructions below assume steps 1 – 9 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 – 9, it is highly recommended that those steps be completed before continuing with the information below.

The instructions below assume a WebSphere Application Server V5.1 for iSeries instance/application server has been created on the iSeries server (see above for an example).

The instructions below assume the latest PTF(s) for the following software product(s) have been loaded and applied to the iSeries server:

- V5R3M0 5722-XH2 iSeries Access for Web  
(<http://www.ibm.com/servers/eserver/series/access/web/>)

iSeries Access for Web provides a script command that is run within the Qshell environment to deploy the servlets. Use the steps below to run the command:

1. Sign on to a 5250 session. The user profile you use must have \*ALLOBJ special authority.

2. The WebSphere application server must be running before iSeries Access for Web can be configured. 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:  
**Application Servers**
7. In the Instance/Server dropdown dialog, select:  
**iwa51base/iwa51base – WAS, V5.1 (base)**
8. In the upper left of the page, click the link to Start the instance/application server. The status will be updated to Starting. Wait for the status to be updated to Running before continuing to the next step.
- 9.
10. Return to the 5250 session.
11. Run the server command:  
**DSPPTF 5722XH2**
12. Verify the following PTF is listed as having a status of applied or superseded.  
**SI10723**
13. Run the server command:  
**QSH**
14. Run the server command:  
**cd /QIBM/ProdData/Access/Web2/install**
15. Run the server command exactly as shown:  
**cfgaccweb2 –appsvrtype \*WAS51 –wasinst iwa51base**
16. As the command runs, several messages will be displayed:  
  
*Configuring iSeries Access for Web  
Preparing to perform the configuration changes.  
Calling WebSphere to perform the configuration changes.  
iSeries Access for Web command has completed.  
The WebSphere instance application server must be stopped and then started to enable the configuration changes.*
17. When the command completes, iSeries Access for Web has been configured. To enable the configuration change, the WebSphere instance/application server must be restarted. The remaining

steps help you restart the instance/application server.

18. Return to the browser session. In the upper left of the page, click the link to Stop the instance/application server. The status will be updated to Stopping. Wait for the status to be updated to Stopped before continuing to the next step
19. In the upper left of the page, click the link to Start the instance/application server. The status will be updated to Starting. Wait for the status to be updated to Running before continuing to the next step.
20. At the top of the web page, select the sub-tab labeled:  
**HTTP Servers**
21. In the Server dropdown dialog, select:  
**IWA51BASE - Apache**
22. In the upper left of the page, click the link to Start the HTTP server. Wait for the status to be updated to Running before continuing to the next step.
23. Open a new browser session to:  
**http://<server\_name>:2040/webaccess/iWAHome**

(Note: If 2040 was substituted with a different port number when the web environment was created, you should use that port number in the above browser address.)

#### Additional Information:

##### **Errors/Unexpected results**

If an error were to occur with the `cfgaccweb2` command, the following log files are the first place to get additional information. If you place a call to IBM Software Service, they will ask that you provide these files:

- `/QIBM/UserData/Access/Web2/logs/cmds.log`
- `/QIBM/UserData/Access/Web2/logs/cmdstrace.log`
- `/QIBM/UserData/Access/Web2/was51base/iwa51base/logs/*.log`

##### **rmvaccweb2 command**

The `rmvaccweb2` command can be used to remove the iSeries Access for Web configuration. The command can be found in the same location as the `cfgaccweb2` command and it would be invoked with the same parameters: **`rmvaccweb2 -appsvrtype *WAS51 -wasinst iwa51base`**

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## **iSeries Access for Web commands**

The iSeries Access for Web commands used for the WebSphere Application Server V5.1 for iSeries are script commands run within the QShell environment. Script commands were provided because support for this environment was added to the product in a PTF. The CL commands that are used for other web

environments could not be updated and delivered in a PTF, so script commands were provided.

The example documentation above only mentioned two of the iSeries Access for Web commands, and just a few parameters for those commands.

The complete list of commands include:

- `cfgaccweb2` Configure iSeries Access for Web
- `straccweb2` Start iSeries Access for Web
- `endaccweb2` End iSeries Access for Web
- `rmvaccweb2` Remove iSeries Access for Web

For additional information on these commands and how to use them for the WebSphere Application Server V5.1 for iSeries environment, you can use the online help that is available with the CL commands. The CL commands support the WebSphere Application Server V5.0 for iSeries Environment. The parameters for the WebSphere V5.0 and V5.1 environments are essentially the same so the help available in the CL commands can be referenced when using the script commands.

To access the help:

1. Sign on to a 5250 session.
2. Type one of the following commands (do not press Enter):  
`QIWA2/CFGACCWEB2 APPSVRTYPE(*WAS50)`  
`QIWA2/STRACCWEB2 APPSVRTYPE(*WAS50)`  
`QIWA2/ENDACCWEB2 APPSVRTYPE(*WAS50)`  
`QIWA2/RMVACCWEB2 APPSVRTYPE(*WAS50)`
3. Press the F1 key to display all the help for the command. Press F3 before continuing to the next step.
4. Press the F4 key to prompt the command and see what parameters are available.
5. Use the F1 key on the individual parameters for additional information on that specific parameter.
6. Press the F11 key to display the keywords for the individual parameters. The parameter keywords are displayed in uppercase. Those same keywords can be used with the script command. For example:

The CL command for WebSphere 5.0 might be invoked like this:

```
QIWA2/CFGACCWEB2 APPSVRTYPE(*WAS50) WASINST(MY_WASINST) APPSVR  
(my_appsvr) NODENAME(my_nodename)
```

The script command for WebSphere 5.1 would be invoked like this:

```
cfgaccweb2 -appsvrtype *WAS51 -wasinst my_wasinst -appsvr my_appsvr -  
nodename my_nodename
```

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## **Additional information**

### **IBM HTTP Server for iSeries**

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/>

### **WebSphere Application Server V5.1 for iSeries**

For additional information on WebSphere Application Server V5.1 for iSeries, refer to the following web site:

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

### **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/>

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