

5722-XH2 V5R3 iSeries Access for Web

WebSphere Portal - Express for iSeries V5.0 - 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

iSeries Access for Web support for WebSphere Portal – Express for iSeries V5.0 was added after the V5R3 iSeries Access for Web InfoCenter documentation was written. This document was written to address the WebSphere Portal – Express for iSeries V5.0 environment. The reader should assume this document supersedes all of the information in the V5R3 iSeries Access for Web InfoCenter documentation, except for the Licensing information.

General information

- You should read this information if you want to learn how to deploy iSeries Access for Web portlets to the WebSphere Portal - Express for iSeries V5.0 web environment.
 - 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.
 - 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.
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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

To begin using iSeries Access for Web portlets, the portal environment must be setup on the iSeries server. The sections below will help guide you through the required steps. Some of the steps will be documented in detail in the sections below, but other steps will guide you to obtain information outside this document.

The steps to setup the portal environment include:

- Installing V5R3 iSeries Access for Web, or upgrading a previous release, on your iSeries server.
 - Setup WebSphere Portal - Express for iSeries V5.0 on your iSeries server.
 - Configuring iSeries Access for Web portlets.
 - Optionally configure iSeries Access for Web servlets.
 - How to start using the portlets/servlets.
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Deploying iSeries Access for Web

The information below will guide you through the process of setting up the WebSphere Portal – Express for iSeries V5.0 environment and deploying iSeries Access for Web to that environment.

Follow the sections in the order outlined below.

Install iSeries Access for Web to the iSeries server

The iSeries Access for Web licensed program product must be installed on the iSeries server before it can be configured for the WebSphere Portal environment.

The V5R3 iSeries Access for Web Readme documentation contains the detailed information you need to install or upgrade iSeries Access for Web. You can find the Readme documentation at: <http://www.ibm.com/servers/eserver/series/access/web/>

When you reach the topic “Configure iSeries Access for Web” in the Readme documentation, return to this document. This document will address the configuration steps required for the WebSphere Portal – Express for iSeries V5.0 web environment.

Please refer to the Readme information before proceeding to the next topic.

Setup WebSphere Portal – Express for iSeries V5.0

The WebSphere Portal InfoCenter contains the information you need to deploy WebSphere Portal and get it running on your iSeries server. The first three topics in the WebSphere Portal InfoCenter walk you through the process of helping you understand what Portal is, the planning necessary before deploying WebSphere Portal on your iSeries server, and finally the installation and configuration. If you already have WebSphere Portal running on your iSeries server, you can proceed to the next topic.

The WebSphere Portal InfoCenter topics to review are:

Product overview

This section provides overview information about WebSphere Portal - Express. Included in this section is a list of new features, a description of the product, an overview of its main components, and information about what each component provides to the overall solution.

Planning

The information in this planning section is designed to help you understand WebSphere Portal as a solution. Multiple software components are shipped with WebSphere Portal, and you can use this planning section to understand the topologies and installation approaches that are possible. Both general and specific information about planning your WebSphere Portal solution is

provided.

Installing

WebSphere Portal includes many products and components that you assemble to suit your specific business needs. The topics listed in this section of the Information Center provide you with detailed planning, installing, configuring, and verifying information to help you set up your environment. The information does not prescribe an installation but allows you to build an environment that is right for you.

In the Installing section, the configuration of WebSphere Portal is performed. The recommended method for configuring WebSphere Portal is to use the IBM Web Administration for iSeries interface. IBM Web Administration for iSeries includes a WebSphere Portal configuration wizard that simplifies configuration of WebSphere Portal and its core components by automatically detecting system information, suggesting commonly used values, and presenting information in step-by-step graphical format.

The portal configuration wizard helps you create a production-level portal environment by walking you through the following:

- HTTP server creation and configuration
- Creation of a new WebSphere Application Server instance
- Portal configuration (includes adding WebSphere Portal to the WebSphere Application Server instance)
- DB2 database configuration
- Portlet deployment
- LDAP
- Configuration of Lotus Collaborative Components

The wizard is designed to handle a range of common WebSphere Portal configurations, but not all possible configurations. However, you can always adjust your configuration after using IBM Web Administration for iSeries by manually running WebSphere Portal configuration tasks.

The configuration of iSeries Access for Web portlets and pages has been integrated into the WebSphere Portal configuration wizard. The previous topic instructed you to install iSeries Access for Web on your iSeries server. If the WebSphere Portal configuration wizard detects the iSeries Access for Web product is installed on the iSeries server, a wizard page will be displayed which allows you to specify what Default Portlets to deploy. **iSeries Access portlets** will be a selectable option in the list of portlets to deploy. If you would prefer to deploy the iSeries Access for Web portlets at a later time, a section below tells you how to do that.

The WebSphere Portal InfoCenter can be accessed at:

<http://publib.boulder.ibm.com/pvc/wp/502/index-smbi.html>

Refer to the InfoCenter information and install and configure WebSphere Portal before proceeding to the next topic.

Configure iSeries Access for Web portlets

The previous topic mentioned that the WebSphere Portal configuration wizard provides an option to deploy the iSeries Access for Web portlets. If you did select that option, you can proceed to the next

topic.

This section will discuss how to deploy, or configure, iSeries Access for Web portlets to a WebSphere Portal – Express for iSeries configuration.

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

1. The WebSphere Portal environment must be running. This includes the HTTP server and the WebSphere Application Server in which WebSphere Portal was configured to run.
2. Sign on to a 5250 session. The user profile you use must have *ALLOBJ special authority.

3. Run the server command:
DSPPTF 5722XH2

4. Verify the following PTF is listed with a status of applied or superseded.
SI10723

5. Run the server command:
QSH

6. Run the server command:
cd /QIBM/ProdData/Access/Web2/install

7. Run the server command:
**cfgaccweb2 -appsrvtype *WP50 -wasinst <was_instance_name> -wpusrid
<portal_admin_user> -wppwd <portal_admin_password> -wpsurl
<server_name>:<port>/wps/config -wppag *YES**
where:

-appsrvtype Web application server type

*WP50 tells the command to configure for WebSphere Portal - Express for iSeries V5.0
This parameter is required.

-wasinst Web server instance name

The name of the WebSphere Application Server instance that is running the WebSphere Portal environment.

If not specified, this parameter will default to use an instance name of “default”.

-wpusrid WebSphere Portal user ID

Specifies the IBM WebSphere Portal administrative user ID that will be used to configure iSeries Access for Web within WebSphere Portal.

Changes to the WebSphere Portal configuration require a user ID be specified to make the changes. This is the same administrator level

user ID that would be used to login to the WebSphere Portal user interface to perform administrator level functions. The user ID and password are sent to the server unencrypted using an HTTP connection. If the connection could be compromised, this command should only be run within a protected intranet environment.

This parameter is required.

-wppwd

WebSphere Portal password

Specifies the password for the IBM WebSphere Portal administrative user ID specified for the WebSphere Portal user ID (wpusrid) parameter.

This parameter is required.

-wpurl

WebSphere Portal config URL

Specifies the universal resource locator (URL) to access the WebSphere Portal configuration servlet. This servlet will add the necessary iSeries Access for Web configuration information to WebSphere Portal.

This URL is comprised of the following elements:

- The portal host name.
- The base universal resource identifier (URI) for the portal, as specified during WebSphere Portal installation (default value was '/wps').
- The servlet extension '/config'.

An example for this value would be: server_name.your_company.com/wps/config

This parameter is required.

-wppag

Create iSeries Access pages

This parameter tells the command to create pages within WebSphere Portal and add the iSeries Access for Web portlets to those pages.

Valid values are: *YES, *NO

Default value if not specified is: *YES

Example invocation:

```
cfgaccweb2 -appsvrtype *WP50 -wasinst portalinst -wpusrid wpsadmin -  
wppwd wpsadmin -wpurl myserver.com/wps/config -wppag *YES
```

Note: If your Portal server environment uses a port other than the default of 80, the `-wpurl`

parameter would be set to “myserver.com:port/wps/config”

8. As the command runs, several messages will be displayed:

```
Configuring iSeries Access for Web
Preparing to perform the configuration changes.
Calling Portal Server to perform the configuration changes.
Refer to the following log file for additional success/failure
information:
    /QIBM/UserData/Access/Web2/wp50/<was_instance>/logs/cfgwps50iwa.log
Refer to the following log file for additional success/failure
information:
    /QIBM/UserData/Access/Web2/wp50/<was_instance>/logs/cfgwps50iwapage.
iSeries Access for Web command has completed.
```

9. When the command completes, iSeries Access for Web has been deployed to WebSphere Portal.
10. Review the additional information section below and then proceed to the next topic.

Additional Information:

Errors/Unexpected results

If an error were to occur with the command or deploying the portlets and pages, 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/wp50/<was_instance>/logs/*.log

Configuring again

The `cfgaccweb2` command run above can be run multiple times. Rerunning the command will redeploy the iSeries Access for Web portlets and reset all iSeries Access for Web portlet configuration customizations back to shipped defaults.

rmvaccweb2 command

The `rmvaccweb2` command can be used to remove the iSeries Access for Web portlet configuration. The command can be found in the same location as the `cfgaccweb2` command and it will accept the same parameters.

IFrame Portlet

The iSeries Access for Web IFrame portlet has a dependency on the iSeries Access for Web servlet functions. The IFrame portlet has the function of allowing iSeries Access for Web servlets to be run from within the WebSphere Portal environment.

If you already use the iSeries Access for Web servlet functions, the IFrame portlet will automatically detect the servlet configuration and create the required connection. If you are not currently using iSeries Access for Web servlets and plan to use the IFrame portlet, you will need to configure the iSeries Access for Web servlets.

You should be able to use the same WebSphere instance in which WebSphere Portal is currently

deployed, proceed to the next topic. If your only need is to use the 5250 session portlet, the iSeries Access for Web servlets do not need to be configured.

Configure iSeries Access for Web servlets

The previous topic mentioned that the IFrame portlet has a dependency on the iSeries Access for Web servlet functions. The 5250 portlet does not have any dependency on the iSeries Access for Web servlet functions.

If you already use the iSeries Access for Web servlet functions, the IFrame portlet will automatically detect the servlet configuration and create the required connection. You can proceed to the next topic.

If you are not currently using iSeries Access for Web servlets and want to use the IFrame portlet, you will need to configure the iSeries Access for Web servlets. For this example, we suggest you use the same WebSphere application server instance for the servlets that you use the WebSphere Portal. The iSeries Access for Web portlets and servlets can be deployed to the same WebSphere application server instance.

iSeries Access for Web provides a CL command to deploy the servlets. Use the steps below to run the command:

1. The WebSphere application server must be running.
2. Sign on to a 5250 session. The user profile you use must have *ALLOBJ special authority.
3. Run the server command:
DSPPTF 5722XH2
4. Verify the following PTF is listed with a status of applied or superseded.
SI10723
5. Run the server command:
QIWA2/CFGACCWEB2 APPSVRTYPE(*WAS50) WASINST(<instance_name>)

Notes:

1. You can refer to the online help text for this command, and the fields/parameters in the command.
 2. You may need to specify additional parameters depending on your specific WebSphere environment. Refer to the online help for additional information.
6. 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.
```
7. When the command completes, iSeries Access for Web servlets have been configured to the WebSphere instance application server.

8. The WebSphere application server will need to be stopped and restarted to enable the configuration changes made using the CFGACCWEB2 command.

## Using iSeries Access for Web portlets/servlets

The previous topic had you configure iSeries Access for Web servlets if they had not already been configured. Following the configuration of the servlets, you were also asked to stop and restart the WebSphere application server to enable the configuration changes.

When the WebSphere application server reaches a running state and is ready to being serving web pages, proceed with the following steps to begin using iSeries Access for Web portlets and servlets.

1. To access the portlets, open a web browser to **http://<server\_name>:<port>/wps/portal**  
  
<server\_name> is the name of your iSeries server  
<port> is the port number that your HTTP server is configured to listen for requests on. This may not be required depending on your configuration.
2. Login to WebSphere Portal using a WebSphere Portal user ID and password.
3. Assuming **-wppage \*YES** was specified on the cfgaccweb2 command invocation (if not specified, default action was \*YES), there should be a tab labeled “My iSeries”.

Click the **My iSeries** tab. The My iSeries page contains two pages.

One page is labeled “5250”, the other is labeled, “IFrame portlets”.

The “5250” page contains the iSeries 5250 Session and Welcome portlets.

The “IFrame Portlets” page contains three IFrame portlets. Each IFrame portlet is configured to use a different iSeries Access for Web servlet function: Printer Output, Run SQL, Browse Files.

When the **IFrame Portlets** tab is selected, you may be prompted to provide an iSeries user ID and password. You are prompted because the IFrame portlet is establishing a connection to the iSeries Access for Web servlet(s). The servlets must perform basic authentication to the iSeries server before the server can be accessed.

4. To access the servlets, open another web browser to **http://<server\_name>:<port>/webaccess/iWAHome**

<server\_name> is the name of your iSeries server  
<port> is the port number that your HTTP server is configured to listen for requests on. This may not be required depending on your configuration.

Please note:

1. You could replace iWAHome with iWAMain to go to the Main iSeries Access for Web page.

5. When prompted, provide your iSeries user ID and password. You are prompted because the servlets must perform basic authentication to the iSeries server before the server can be accessed.
  6. The displayed web page is the iSeries Access for Web servlet functions.
  7. For additional information on using the iSeries Access for Web portlets or servlets, 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/series/access/web/>
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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 Portal – Express for iSeries V5.0**

For additional information on WebSphere Portal – Express for iSeries V5.0, refer to the following web site:

<http://publib.boulder.ibm.com/pvc/wp/502/index-smbi.html>

### **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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