



IBM[®] WebSphere Host Publisher Planning and Installation Guide for iSeries

Version 4.0



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Note

Before using this information and the product it supports, be sure to read the general information under Appendix A, "Notices" on page 15.

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Planning and Installing Host Publisher

The Host Publisher program product consists of two components, which you install separately:

- Host Publisher Server, which you install on an iSeries™ server. (Throughout this book, the term *iSeries* is used to refer to both AS/400® and iSeries servers.)
- Host Publisher Studio, which you install on a Windows® workstation. It provides a development environment for creating Web-based applications.

As with any software, some planning is necessary to ensure a successful installation. Use the planning information in this book to help you install the Host Publisher components.

Where to find additional information

This book refers to the following documentation sources for additional information about installing and configuring Host Publisher on iSeries.

Note: In the directory paths shown, *language* refers to one of the following:

de	German
en	English
es	Spanish
fr	French
it	Italian
ja	Japanese
ko	Korean
pt_BR	Portuguese (Brazilian)
tr	Turkish
zh	Simplified Chinese
zh_TW	Traditional Chinese

- The *Host Publisher Readme*, located on the Host Publisher Server CD in `install_CD_location/OS400/language/readme.htm`, contains specialized information supplementary to the Host Publisher publications and online help.
- The iSeries Information Center at <http://www.ibm.com/eserver/series/infocenter> is your starting point for obtaining additional technical information to help you install Host Publisher on iSeries.
- The WebSphere® for iSeries Documentation Center at <http://www.ibm.com/servers/eserver/series/software/websphere/>

wsappserver/ (click **Documentation**) has detailed information about installing and customizing WebSphere Application Server (WebSphere).

- The *IBM WebSphere Host Publisher Administrator's and User's Guide*, located on the Host Publisher Server CD in `/install_CD_location/OS400/language/guide.htm`, contains detailed instructions for migrating your existing Host Publisher applications so they can be used with Host Publisher Version 4.0. The installation procedure in this book indicates when that migration is to be done.
- The Host Publisher Web site, <http://www.ibm.com/software/network/hostpublisher>, contains additional documentation and support information.

Notes:

1. The *Administrator's and User's Guide* is also available in PDF format, located in `/install_CD_location/OS400/language/guide.pdf`.
2. After you install Host Publisher Server on your iSeries server, you can access the *Administrator's and User's Guide*, along with other Host Publisher documentation, at <http://hostname/HPDoc/HPDocServlet> (where *hostname* is the hostname or IP address of your server).

Hardware and software requirements

Host Publisher Server runs on the iSeries server. Host Publisher Studio runs on the Windows platform (Windows 98, Windows NT[®] 4.0, Windows 2000, Windows Me, and Windows XP).

Host Publisher Server

Hardware requirements

Host Publisher Version 4.0 runs on any iSeries Server on which WebSphere Application Server (WebSphere) is supported. Server model numbers and feature codes are listed in the WebSphere for iSeries Documentation Center.

In addition, the following are required:

- A minimum of 1 GB RAM
- 200 MB DASD - Host Publisher Server base code

Software requirements

OS/400: Host Publisher Server requires **OS/400 V4R5**, **OS/400 V5R1**, or **OS/400 V5R2** with the latest cumulative PTF fix package applied

WebSphere Application Server: Before you install Host Publisher Server, one of the following versions of WebSphere Application Server (WebSphere) must be installed, configured, and running properly, with all required PTFs installed.

Table 1. WebSphere levels required for Host Publisher Server

Product ID	Version	Product Name
5733-WS4	4.0.2 or later	WebSphere Application Server, Advanced Single Server Edition
5733-WA4	4.0.2 or later	WebSphere Application Server Advanced Edition

Note: If you intend to use Host Publisher in a cloning environment, WebSphere Application Server Advanced Edition is required.

For WebSphere prerequisite information, refer to the WebSphere for iSeries Documentation Center. You can find information about the latest WebSphere Application Server PTFs at the same location (click **PTFs**).

Other software: The following software products are also required:

Table 2. Software required for Host Publisher Server

Product ID	Option	Product Name
5722-SS1	30	OS/400 Qshell Interpreter
5722-JC1	Base	Toolbox for Java™
5722-JV1	Base	Developer Kit for Java
5722-JV1	5	Developer Kit for Java version 1.3

Host Publisher Studio

Hardware requirements

- Pentium II® 366 processor or higher, Pentium II 450 processor recommended
- Minimum of 128 MB RAM, 256 MB RAM recommended
- 300 MB of free disk space, add more for your Host Publisher applications, 1 GB recommended
- A display with a color depth of 256 colors or higher, and a minimum screen resolution of 800 x 600 pixels

Note: These requirements pertain only to Host Publisher Studio. Other products running on the workstation with Host Publisher Studio could require additional resources.

Software requirements

One of the following operating systems is required:

- Windows NT 4.0 (Workstation or Server)

- Windows Me
- Windows 98
- Windows 2000 (Professional, Server, or Advanced Server)
- Windows XP

Limitations

The installation path of Host Publisher Studio defaults to c:\HostPub. You may choose to install under a different directory, but the fully qualified path should not exceed 31 characters. If the length of the fully qualified path is greater than 31 characters, the Host Publisher batch files will fail.

Performance considerations

Host Publisher Version 4.0 is a Java product. Performance is a function of the speed of the network and the processing power of the server. Refer to the WebSphere for iSeries Documentation Center for additional performance considerations in the WebSphere environment.

Before installing Host Publisher Server

Before you install Host Publisher Version 4.0 on the iSeries server, you should be aware of the following considerations.

Host Publisher Server cannot coexist with other versions

Only one version of Host Publisher Server can be installed on the iSeries server.

If a previous version of Host Publisher Server is already installed on the iSeries server, the setup instructions found later in this document will explain how to uninstall the previous version and migrate your applications and XML Gateway sessions to Host Publisher Version 4.0.

WebSphere product level

WebSphere Advanced Edition or Advanced Single Server Edition must be installed and at a fix level of 4.0.2 or later. If WebSphere 4.0 is not installed on the iSeries server, follow these steps:

1. Uninstall the previous version of Host Publisher Server.
2. Install WebSphere 4.0.2 (or later Version 4 PTF).
3. Ensure that WebSphere is operational.
4. Install Host Publisher Server Version 4.0

As you follow these steps, note the following:

- WebSphere 4.0 can coexist on the iSeries server with other versions of WebSphere.
- If WebSphere 4.0 is to be installed and a previous version of WebSphere is already installed on the iSeries server, we recommend that you *not* migrate

Web applications from the previous WebSphere version during WebSphere installation, even though it is recommended in the WebSphere documentation. Host Publisher Version 4.0 provides migration tools designed specifically for Host Publisher applications.

- You can configure Host Publisher Version 4.0 to run with any instance of WebSphere administrative server. (Previous releases of Host Publisher supported only the default WebSphere administrative server instance.) Refer to the WebSphere for iSeries Documentation Center for details on setting up multiple instances of the WebSphere administrative server.
- Refer to the WebSphere for iSeries home page for information about obtaining the latest available PTFs for WebSphere on the iSeries server.

CD format and layout

The CD-ROM containing Host Publisher Server Version 4.0 is not an OS/400 format CD-ROM. It is a PC-DOS format CD-ROM, containing installation logic and OS/400 licensed program save files that are in stream file format. The installation process copies the save files to the iSeries server and restores Host Publisher Server Version 4.0 to the server.

Installation destinations

Most of the Host Publisher Server product files are installed to the Integrated File System (IFS) of the iSeries server. The installation directories are /QIBM/ProdData/HostPublisher and /QIBM/UserData/HostPublisher. In addition, some objects are installed to library QHPN in the native library file system.

***SECOFR authority required**

The user profile you use to perform the installation and configuration must have *SECOFR authority.

Installing Host Publisher Server

You install Host Publisher Server on the iSeries server. This section guides you through the following tasks:

- Uninstalling the previous version of Host Publisher Server (if you are migrating)
- Preparing to install Host Publisher Server
- Installing the Host Publisher Server program code
- Starting Web application servers
- Migrating applications and XML Gateway sessions

During installation, the installation and configuration programs `install` and `cfghpsvr` perform the following actions on your system:

- Installing the Host Publisher Server program and documentation files.

- Updating the WebSphere configuration to include the following:
 - A Host Publisher Application Server (Advanced Edition only)
 - The Host Publisher Server Administration Application (HPAdmin.ear)
 - The Host Publisher Documentation Application (HPDoc.ear)
 - The Host Publisher XML Gateway Application (xmlLegacyGW.ear)

Host Publisher is configured in the administrative server instance that you specify for WebSphere.

Uninstall the previous version of Host Publisher

If a previous version of Host Publisher Server is installed on the iSeries server, you must uninstall it.

After you uninstall Host Publisher Server, your Host Publisher applications remain on the system. Later, after you have installed the Host Publisher Version 4.0 code, you will need to migrate them so they will work with WebSphere 4.0. The migration steps are described in “Migrate applications and XML Gateway sessions” on page 9.

To uninstall Host Publisher Server, follow these steps:

1. Sign on to the server using a profile that has *SECOFR authority.
2. Perform the following steps to ensure that WebSphere is active:
 - a. Run the following server command: `WRKACTJOB SBS(QEJBSBS)`
 - b. If the subsystem is not running, run the following server command: `STRSBS QEJB/QEJBSBS`
 - c. Select option 5 for the QEJBADMIN job.
 - d. Select option 10 to view the job log, and verify that the Ready message is displayed.
3. Uninstall Host Publisher Server by running one of the following server commands:
 - For Host Publisher V2.2.1: `DLTLICPGM LICPGM(5648D31)`
 - For Host Publisher V3.5: `DLTLICPGM LICPGM(5648E25)`
4. Refresh the view of application servers in the WebSphere Administrative Console and verify that the HostPubServer application server was deleted.

Note: If you do not uninstall Host Publisher Server prior to upgrading WebSphere, you will have a large number of unused files on your system. For information about removing these files, refer to the *Host Publisher Readme* (located on the Host Publisher Server CD in `install_CD_location/OS400/language/readme.htm`).

Prepare to install Host Publisher Server

1. Sign on to the server using a profile that has *SECOFR authority.

2. Verify that all prerequisite software is installed by running the following server command: `GO LICPGM`
Option **10** displays what is installed on the iSeries server.
3. If you plan to use Host Publisher with WebSphere Advanced Edition:
 - a. Run the following server command: `WRKACTJOB SBS(QEJBADV4)`
 - b. If the subsystem is not running, run the following server command: `STRSBS QEJBADV4/QEJBADV4`
 - c. Select option **5** on the QEJBADMIN job or the ADMIN job listed for your administrative server instance. If the ADMIN job is not listed, refer to the WebSphere for iSeries Documentation Center for starting administrative server instances.
 - d. Select option **10** and verify that the Ready message is displayed.
4. If you plan to use Host Publisher with WebSphere Advanced Single Server Edition:
 - a. Run the following server command: `ENDSBS QEJBAES4`
 - b. Run the server command `WRKACTJOB SBS(QEJBAES4)` to verify WebSphere is ended.

Install the Host Publisher Server program code

1. Insert the Host Publisher Server CD-ROM into the CD drive on the server.
2. Run the following server command: `qsh`
3. In the QSH command entry session:
 - a. Run the command `cd/QOPT/HP40`
 - b. Run the `install` command:


```
install [-silent]
```

where the optional parameter `-silent` performs a silent installation. Messages are logged to the file `QIBM/ProdData/HostPublisher/Install/HPInstall.log`.

4. When the `install` command completes, review the displayed messages and follow any instructions that are displayed.
5. Change to the HostPublisher directory:


```
cd /QIBM/ProdData/HostPublisher
```
6. Run the `cfghpsvr` command:


```
cfghpsvr [-instance instance] [-configFile AEs_config_file]  
         [-was WAS_edition] [-iwa] [-silent]
```

where:

-instance *instance*

specifies the name of the WebSphere administrative server instance in which Host Publisher is to be configured. The default value is default.

Note: Host Publisher can be configured with only one WebSphere administrative server instance. If you configured Host Publisher previously with a different administrative server instance, its Host Publisher configuration will be removed when Host Publisher is configured with the new instance.

-configFile *AEs_config_file*

(WebSphere Advanced Single Server Edition only) specifies the fully-qualified name of the WebSphere server configuration file. The default is the active configuration file in WebSphere Application Server, found in the admin.properties file in /QIBM/UserData/WebASAEs4/*instance*/properties/ (admin.configFile property).

-was *WAS_edition*

specifies the edition of WebSphere Application Server in which Host Publisher is to be configured. This parameter is necessary only if both editions of WebSphere Application Server are installed on the iSeries server. Possible values for *WAS_edition* are:

- ADV4: WebSphere Advanced Edition Version 4.0
- AES4: WebSphere Advanced Single Server Edition Version 4.0

The default is ADV4 if installed.

-iwa configures Host Publisher for integration with iSeries Access for Web.

-silent runs cfghpsvr silently. No output is displayed. Messages are still logged to the install log file at /QIBM/ProdData/HostPublisher/Install/HPInstall.log.

7. When the cfghpsvr command completes, review the displayed messages and follow any instructions that are displayed.
8. Press F3 to exit the QSH command entry session.

Start Web application servers

1. If Host Publisher was configured for WebSphere Advanced Edition, start the HostPubServer application server:
 - a. Using the WebSphere Advanced Administrative Console, select the application server named HostPubServer.
 - b. Click **Start**.
 - c. Check the Console Messages area to verify that the start command completed successfully.

Alternatively, you can start the HostPubServer application server using commands. In a QSH command entry session, enter the following commands:

```
cd /QIBM/ProdData/HostPublisher
strhpsvr
```

2. If Host Publisher was configured for WebSphere Advanced Single Server Edition, start WebSphere:
 - a. Run the server command STRSBS QEJBAES4/QEJBAES4 to start WebSphere.
 - b. Run the following server command: WRKACTJOB SBS(QEJBAES4)
 - c. Select option **5** for the DEFAULT_SE job.
 - d. Select option **10** and verify that the Ready message is displayed.
 - e. If Host Publisher was configured for a WebSphere administrative server instance other than the default, start that administrative server instance now:
 - 1) Select option **5** for your server's job.
 - 2) Select option **10** and verify that the Ready message is displayed.

Migrate applications and XML Gateway sessions

Applications and XML Gateway sessions created for previous versions of Host Publisher must be migrated in order to work with Host Publisher Version 4.0.

You can migrate your existing applications and sessions after installation by using a migration utility known as AppMigrator. You must invoke AppMigrator from the QSH command line after you have installed and configured Host Publisher; it is not invoked during installation.

For detailed information about migration, including complete descriptions of the AppMigrator utility, refer to Chapter 3 of the *IBM WebSphere Host Publisher Administrator's and User's Guide*.

Testing installation of Host Publisher Server

After you complete installation of Host Publisher Version 4.0, test the installation by loading the following in your browser (where *hostname* is the hostname or IP address of your server):

- Host Publisher Server Administration: <http://hostname/HPAdmin/main.jsp>
- ShowCfg: <http://hostname/HPAdmin/showCfg>

If either Host Publisher Server Administration or ShowCfg fails to load, check the Host Publisher Server configuration of WebSphere Application Server, as described below.

Testing with WebSphere Advanced Edition

To test the installation with WebSphere Advanced Edition, perform the following steps:

1. Perform the following steps to confirm that HostPubServer application server is active:
 - a. Using the tree view in the WebSphere Administrative Console, expand **WebSphere Administrative Domain > Nodes > *your node name***.
 - b. Select **Application Servers**.
 - c. Click the Refresh icon. HostPubServer should be listed in the details view, with a status of Running.
2. If HostPubServer is inactive, perform the following steps to activate it:
 - a. Using the tree view in WebSphere Administrative Console, expand **Application Servers**.
 - b. Select the application server named HostPubServer.
 - c. Click the Start icon or click **Console > Start**.
 - d. Check the Console Messages area to verify that the start command completed successfully.
3. Perform the following steps to confirm that HPDoc, HPAdmin, and xmlGateway appear as installed Enterprise Applications in the WebSphere Application Server topology:
 - a. Using the tree view in the WebSphere Administrative Console, expand **WebSphere Administrative Domain**.
 - b. Select **Enterprise Applications**.
 - c. Click the Refresh icon. HPDoc, HPAdmin, and xmlGateway should appear in the details view.
4. If WebSphere is not configured properly for Host Publisher, perform the following steps to run the Host Publisher deploy command:
 - a. Perform the following steps to confirm that the WebSphere administrative server job is started and ready:
 - 1) Run the following server command: `WRKACTJOB SBS(QEJBADV4)`
 - 2) If the subsystem is not running, run the following server command: `STRSBS QEJBADV4/QEJBADV4`
 - 3) Select option **5** on the QEJBADMIN job or the ADMIN job listed for your administrative server instance. If the ADMIN job is not listed, refer to the WebSphere for iSeries Documentation Center for starting administrative server instances.
 - 4) Select option **10** and verify that the Ready message is displayed.
 - b. Run the following server command: `QSH`
 - c. In the QSH command entry session, enter the following commands:

```
cd /QIBM/ProdData/HostPublisher
```


AE0S400Deploy

- d. Check for error messages in the deploy log file
/QIBM/UserData/HostPublisher/log/AEdeploy.log.
- e. Press F3 to exit the QSH command entry session.

Testing with WebSphere Advanced Single Server Edition

To test the installation with WebSphere Advanced Single Server Edition, perform the following steps:

1. Confirm that WebSphere is running by entering the following server command: WRKACTJOB SBS(QEJBAES4)
If WebSphere is not running:
 - a. Run the server command STRSBS QEJBAES4/QEJBAES4 to restart WebSphere.
 - b. Run the following server command: WRKACTJOB SBS(QEJBAES4)
 - c. Select option **5** for the DEFAULT_SE job.
 - d. Select option **10** and verify that the Ready message is displayed.
 - e. If Host Publisher was configured for a WebSphere administrative server instance other than the default, start that administrative server instance now.
 - f. Select option **5** for your server's job.
 - g. Select option **10** and verify that the Ready message is displayed.
2. Perform the following steps to confirm that HPDoc.ear, HPAdmin.ear, and xmlGateway appear as installed Enterprise Applications in the WebSphere Application Server topology for the server configuration file chosen during installation:
 - a. Using the tree view in the WebSphere Administrative Console, expand **WebSphere Administrative Domain > Nodes > *your node name***.
 - b. Select **Enterprise Applications**. HPDoc.ear, HPAdmin.ear, and xmlGateway should appear in the details view.
3. If WebSphere is not configured properly for Host Publisher, perform the following steps to run the Host Publisher deploy command:
 - a. Run the following server command: QSH
 - b. In the QSH command entry session, enter the following commands:

```
cd /QIBM/ProdData/HostPublisher
AE0S400Deploy
```
 - c. Check for error messages in the deploy log file
/QIBM/UserData/HostPublisher/log/AESdeploy.log.
 - d. Press F3 to exit the QSH command entry session.
4. Stop and restart WebSphere Advanced Single Server Edition.

Diagnosing installation problems

If errors were reported during installation or configuration, or if you could not successfully perform the steps in “Testing installation of Host Publisher Server” on page 9, view the installation and configuration log file using the server command

```
DSPF STMF('/QIBM/ProdData/HostPublisher/Install/HPInstall.log')
```

This log file contains every server command issued and the resulting messages. It also contains the results of other actions taken by the installation and configuration programs, as well as other information gathered during installation and configuration.

If an error occurred during installation or configuration, it will often be found near the end of this file. If an error message was returned from an OS/400 command, it may be helpful to copy the command from the log file and run it in an interactive OS/400 session. Then display the messages returned from the command in your job log and display the second-level help for any error messages. The second-level help can contain more specific information about the cause of the error.

Installing Host Publisher Studio

Host Publisher Studio is installed on a Windows workstation using either of the following procedures.

Typical installation

To install Host Publisher Studio from a program CD:

1. If you are upgrading from a previous version of Host Publisher Studio, use the procedure described in “Uninstalling Host Publisher Studio” on page 14 to uninstall the previous version.

Uninstalling Host Publisher Studio does not remove applications created with the previous version. The applications can be migrated to run with Host Publisher Version 4.0. For detailed information about migration, refer to Chapters 2 and 3 of the *IBM WebSphere Host Publisher Administrator's and User's Guide*.

2. Insert the Host Publisher Studio CD into the CD drive.
3. Wait for the first installation window. If the window does not appear, use Windows Explorer or the Run function in Windows to run setup.exe from the CD root directory.
4. Proceed through the installation windows.
5. Click **Finish** when the final window appears.

Silent installation

Because silent installation of Host Publisher Studio occurs on a Windows workstation, it is different from silent installation of Host Publisher Server.

You create a response file, and you use the response file to perform the installation of Host Publisher Studio in the location you specify.

1. To create a response file that contains the information required on the installation panels, and install Host Publisher Studio, type the following at a Windows command prompt:

```
setup.exe -r -f1responsefile_path -f2logfile_path
```

where *responsefile_path* and *logfile_path* are the paths where you want the response file and log file to reside. (The *-f2* parameter is optional.)

For example:

```
setup.exe -r -f1c:\HostPublisher\setup.iss -f2c:\HostPublisher\setup.log
```

2. To perform the silent installation using the response file, type the following at a Windows command prompt:

```
setup.exe -s -f1responsefile_path -f2logfile_path
```

For example:

```
setup.exe -s -f1c:\HostPublisher\setup.iss -f2c:\HostPublisher\setup.log
```

To verify the silent installation, check the setup.log file. If the silent installation was successful, the ResultCode is 0. If the silent installation failed, the ResultCode is often -12, which indicates that the information in the response file does not exactly correspond to the panels presented during the silent installation. It is important for the response file information to match the installation panels, so be sure that you create the response file and run the silent installation in the same environment.

Uninstalling Host Publisher Server

To uninstall Host Publisher Server Version 4.0 on the iSeries server:

1. Sign on to the server using a profile that has *SECOFR authority.
2. If Host Publisher was configured for WebSphere Advanced Edition, perform the following steps:
 - a. Run the server command `WRKACTJOB SBS(QEJBADV4)`.
 - b. If the subsystem is not running, run the following server command:
`STRSBS QEJBADV4/QEJBADV4`
 - c. Select option **5** for the QEJBADMIN job or the ADMIN job listed for your WebSphere administrative server instance. If the ADMIN job is not listed, refer to the WebSphere for iSeries Documentation Center for starting administrative server instances.
 - d. Select option **10** to view the job log, and verify that the Ready message is displayed.
3. Run the following server command: `DLTLICPGM LICPGM(5724B81)`

4. If Host Publisher was configured for WebSphere Advanced Single Server Edition, restart WebSphere to remove any Host Publisher configuration information that may still be loaded in memory:
 - a. Run the following server command: ENDSBS QEJBAES4
 - b. Run the following server command: WRKACTJOB SBS(QEJBAES4). When the QEJBAES4 subsystem ends, run the server command STRSBS QEJBAES4/QEJBAES4 to restart WebSphere.

Notes:

1. The IFS root directory (/QIBM/UserData/HostPublisher) is not removed because it may contain your user data.
2. In WebSphere Advanced Edition only, when you uninstall Host Publisher, all custom applications configured in the HostPubServer application server are retrieved in their current states from /QIBM/UserData/WebASAdv4/*instance*/installedApps (where *instance* is the name of the WebSphere administrative server instance) and copied to /QIBM/UserData/HostPublisher/saved/apps.
3. OS/400 authorization lists QSYS/QHPNPAUTL and QSYS/QHPNDAUTL are left on the system because they are in use securing /QIBM/UserData/HostPublisher.
4. Any files that have been copied into the original directory tree rooted at /QIBM/ProdData/HostPublisher are deleted.

Uninstalling Host Publisher Studio

To uninstall Host Publisher Studio:

1. From the Windows Control Panel, click **Add/Remove Programs**.
2. Select **IBM Host Publisher Studio**.
3. Click **Change/Remove**.

Appendix A. Notices

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Programming interface information

This Planning and Installation Guide contains information on intended programming interfaces that allow the customer to write programs to obtain the services of Host Publisher.

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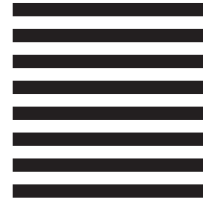
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