# IBM® SecureWay® Host Publisher Planning and Installation Guide for AS/400®

*Version 2*

SC31-8734-00

# IBM® SecureWay® Host Publisher Planning and Installation Guide for AS/400®

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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 7.

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# Planning and Installing Host Publisher

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

## Hardware and software requirements

### Hardware requirements

**AS/400e Server**

- Models 170 - 7XX
- 512 MB RAM - minimum
- 200 MB DASD - Host Publisher Server base code and all languages
- Java capable CPU feature code
- Refer to *AS/400 Performance Capabilities Reference* (http://publib.boulder.ibm.com/pubs/html/as400/onlinelib.htm)

To access all AS/400 books, go to: http://as400bks.rochester.ibm.com/.

### Software requirements

**OS/400 V4R4** with latest cumulative PTF fix package applied

**5769DG1**
IBM HTTP Server V1.1

**5769AS1**
IBM WebSphere Application Server Std. Edition V2.02. Obtain by applying WEBAS Group PTF SF99027 dated September 1, 1999 or later to WebAS V1.1. See http://www.as400.ibm.com/tstudio/websphere/services/service.htm for information about SF99027.

**5769JV1**
Java Developer Kit with JDK 1.1.7

**5769JC1**
AS/400 Java Toolbox

**5769ST1**
DB2/400 Toolkit

**5769SS1**
Option 30 - Qshell interpreter

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### Limitations

Host Publisher Version 2.1 uses IBM WebSphere V2 and IBM SecureWay Host On-Demand V4.0. Refer to documentation on those products to understand any limitation considerations they might have.

### Performance considerations

Host Publisher Version 2.1 is a Java product. Performance is a function of the speed of the network and the processing power of the server. Refer to *AS/400 Performance Capabilities Reference* (http://publib.boulder.ibm.com/pubs/as400/onlinelib.htm).

## CD layout

This is not an AS/400 format CD; it is a PC-DOS format CD. AS/400 license program save files are in stream file format and are copied to the AS/400 library file system to enable installation using the `rstlicpgm` command. The Qshell script, `install.sh`, located in the root directory of the CD, performs the copy and `rstlicpgm`.

## Before installing Host Publisher

Before you begin installing Host Publisher, you must know:

- The *pass directive* you want to use (for Host Publisher Server only)

  The pass directive is a string that appears in every URL request. It allows the organization of Host Publisher document parts under one directory.
- The number of page requests per minute for which you are authorized
- The National Language version code for online help and documentation. See the following table.

| Language | Java code | NLV code |
|---|---|---|
| Chinese (Simplified) | zh_CN | 89 |
| Chinese (Traditional) | zh_TW | 87 |
| English | en_US | 24 |
| French | fr_FR | 28 |
| German | de_DE | 29 |
| Italian | it_IT | 32 |
| Japanese | ja_JP | 62 |
| Korean | ko_KR | 86 |
| Portuguese (Brazilian) | pt_BR | 80 |
| Spanish | es_ES | 31 |

## Installing Host Publisher Server

Installation of the Host Publisher Server includes the following:

- Host Publisher 2.1 Server code
- Host Publisher Server Administration files
- National Language version of online help and product documentation
- A server configuration file (server.properties) that contains the purchased number of licenses

Publishing of applications is handled by the Host Publisher Studio; however, some database and host access samples have been provided for your use. Refer to http://www.ibm.com/Support for the latest information about the samples.

During installation, these files are modified:

- WebSphere's **bootstrap.properties** file, to allow it to access Java code installed with Host Publisher 2.1
- WebSphere's **servlets.properties** file, to define the Host Publisher Server Administration servlet, and to make Integration Objects that are published later accessible to WebSphere
- Web server configuration files, to configure the Host Publisher Server *pass directive*.

### Installation destinations

Host Publisher Server is predominately a Java-based product; for that reason, it installs most code and data files into the AS/400 Integrated File System (IFS). The root installation directories are /QIBM/ProdData/HostPublisher and /QIBM/UserData/HostPublisher. There are some product objects in native OS/400 format that are installed to library QHPN in the native library file system of OS/400.

### Installing on OS/400

These instructions assume you have already configured the default IBM HTTP Server instance or some other named instance on your AS/400 to enable or run WebSphere Application Server V2.02. If you have not, please refer to WebSphere documentation or Web site for instructions.

1. Sign on to OS/400 for an interactive 5250 session using a profile with *SECOFR authority.
2. Ensure that all prerequisite software is installed and operating normally.
3. If IBM HTTP Server and WebSphere Application Server V2.02 are already running, it is not necessary to stop them to perform the Host Publisher install; however, you must stop and start them for configuration changes to take effect.
4. Insert the CD into your AS/400 system CD reader.

5. Run command `qsh` from any OS/400 command line to enter the Qshell environment.
6. In Qshell, run these commands
   a. `cd /QOpt`
   b. `install.sh` [-n *language_code*] [-l *number_licenses*] [-c]

      Where *language_code* is the 2-digit value for your national language version of translated help and documentation. The default is 24, which is English.

      Where *number_licenses* is the number of page requests per minute for which you are authorized or that you have purchased.

      Where -c is a switch to prevent installing the base code portion of the product, if you want to install more than one national language version of help and documentation. The default is to install the base code.

      **Note:** All `install.sh` parameters are optional.
7. When the `install.sh` script finishes, review all messages in the session to verify that installation was successful.
8. Press F3 to exit Qshell.

**Installation notes:**

- Installation of base code and one language takes approximately 5-to-10 minutes; installation of only one language takes approximately 3-to-5 minutes.
- `install.sh` submits several batch jobs to perform native OS/400 Java compiles. These jobs are reported via messages to your log output file (which is normally the Qshell session screen). Monitor the jobs for completion using the OS/400 command `wrkjob` when you exit the Qshell environment. **These jobs take from 45 minutes to 2 hours to complete**, depending on your AS/400 model, CPU feature, memory, and current workload. When these jobs complete successfully, you may continue with the Host Publisher configuration of the IBM HTTP Server. If currently stopped, ***do not start*** the IBM HTTP Server until the Host Publisher Java compilation jobs have completed successfully.
- It is recommended that WebSphere Application Server V2.02 be configured to run in **Process Mode: Out** for best performance and isolation from IBM HTTP Server. Refer to the WebSphere documentation or Web site for instructions.

## Configuring IBM HTTP Server

These instructions assume you have already configured the default IBM HTTP Server instance, or some other named instance on your AS/400 to enable or run WebSphere Application Server V2.02. If you have not, refer to WebSphere

documentation or the Web site for instructions. If you are using a configuration member name other than config, substitute your configuration name accordingly in these instructions.

To configure IBM HTTP Server V1.1 to serve Web pages for Host Publisher Server on OS/400:

1. Sign on to OS/400 for an interactive 5250 session using a profile with at least *IOSYSCFG authority.
2. Type OS/400 command `wrkhttpcfg config`.

   This allows you to edit the default IBM HTTP Server instance configuration member named config. Add the following 3 lines, without the quotation marks, to the configuration. **These lines are case sensitive.**

   ```
   "Pass /_IBM_HP_WebAdmin_/*
      /QIBM/UserData/HostPublisher/Server/production/documents/*"

   "Pass /pass_directive/*
      /QIBM/UserData/HostPublisher/Server/production/documents/*"

   "DirAccess On"
   ```

   Where *pass_directive* is the string you want to use in every URL request.
3. Press F3 to exit and save the configuration.
4. Ensure that the Host Publisher Java compilation jobs have completed successfully before starting the IBM HTTP Server and WebSphere Application Server V2.02.

## Uninstalling Host Publisher

To uninstall Host Publisher Server on OS/400:

1. Sign on to OS/400 for an interactive 5250 session using a profile with *SECOFR authority.
2. Stop IBM HTTP Server and WebSphere Application Server V2.02 by issuing OS/400 command `endtcpsvr *http`. It may take a few minutes for the servers to shut down after the command has finished.
3. Run OS/400 command `dltlicpgm 5648D31`.

**Uninstall notes:**

- The IFS root directory /QIBM/UserData/HostPublisher is not removed because it may contain your user data.
- OS/400 authorization lists QSYS/QHPNPAUTL and QSYS/QHPNDAUTL are left on the system because they are in use securing /QIBM/UserData/HostPublisher.

## Diagnosing installation problems

If problems occur during installation, first check the messages listed in the Qshell session. Some OS/400 system commands issued from the `install.sh` script are run in batch jobs, so also check the message queue and spooled output of the profile performing the install.

To check the message queue, from a native OS/400 command line, run command `dspmsg`. To check for spooled output and job logs, run command `wrksplf`.

If more diagnostic information is required, you can generate additional messages from the `install.sh` script run by defining some Java system property settings in your profile home directory before running `install.sh`. Define the Java system property settings using this procedure:

1. Create an ASCII text file named SystemDefault.properties on your workstation. Add the following lines to the file:

   ```
   acc.log.quiet=false
   acc.log.filename=/home/HPInstall.log
   acc.log.option=5
   ```

   Save the file.

2. From a mapped drive to your AS/400, or using FTP, copy the file to the home directory of the profile on the AS/400 that is performing the installation. Usually, this is /home/*profilename*.

   Preserve the case of the filename as shown above.

3. Perform the Host Publisher installation as described previously in this document. When completed, the file /home/HPInstall.log will contain commands and messages performed during installation, in addition to those shown in the Qshell session. Review all messages for diagnostic information and clues to possible error recovery. Have this log file, in case you need to contact IBM Support for assistance.

4. Finally, you can perform the `install.sh` procedure and the procedure of subordinate Qshell scripts manually; these files are ASCII text files. Running system commands from the OS/400 native command line enables you to obtain second-level help for the message issued by commands, either interactively using the F1 or HELP keys or by reading the job log.

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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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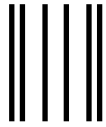

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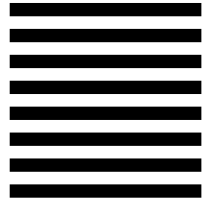

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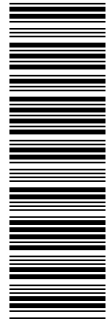

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