

IBM WebSphere Commerce - Express



Quick Beginnings for OS/400

Version 5.5

IBM WebSphere Commerce - Express



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Version 5.5

Note:

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 39

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This edition applies to WebSphere Commerce - Express Version 5.5 and to all subsequent releases. Ensure that you are using the correct edition for the level of the product.

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Chapter 1. Welcome to WebSphere® Commerce - Express

This book describes how to install and configure the main components of WebSphere Commerce - Express for @server iSeries™ Version 5.5 on a single machine. It is intended for system administrators or for anyone else responsible for performing installation and configuration tasks. For more advanced configuration scenarios, refer to the *WebSphere Commerce - Express Installation Guide*.

Important

Unless otherwise noted, all references to *WebSphere Commerce* in this book refer to WebSphere Commerce - Express.

For instructions on the installation and configuration of WebSphere Commerce - Express Developer Edition, refer to *WebSphere Commerce - Express Developer Edition Installation Guide*.

Updates to this book

This Installation Guide, and any updated versions of this Installation Guide, are available as PDF files at the WebSphere Commerce Technical Library Web site:

<http://www.ibm.com/software/commerce/library/>

For additional information on WebSphere Commerce - Express, see the following Web site:

<http://www.ibm.com/software/genservers/commerce/express/>

For additional support information, see the WebSphere Commerce Support site:

<http://www.ibm.com/software/commerce/support/>

To learn about last-minute changes to the product, see the updated product README file found at the root of WebSphere Commerce - Express CD 1, which is also available from the WebSphere Commerce Technical Library Web site

<http://www.ibm.com/software/commerce/library/>

If you are installing on a system that has WebSphere Commerce Version 5.4 Professional Entry Edition, see the *WebSphere Commerce - Express Migration Guide*.

Updates from the last version of this document are identified by revision characters contained in the margin. This book uses the following conventions for revision characters:

- The "+" character identifies updates that have been made in the current version of this document.
- The "|" character identifies any updates that have been made in the previous versions of this document.

Conventions used in this book

This book uses the following conventions:

Boldface type	Indicates commands or graphical user interface (GUI) controls such as names of fields, icons, or menu choices.
Monospace type	Indicates examples of text you enter exactly as shown, file names, and directory paths and names.
<i>Italic type</i>	Used to emphasize words. Italics also indicate names for which you must substitute the appropriate values for your system.

Variables used in this book

Some of the key variables used in this book are as follows:

host_name

This variable represents the fully qualified host name of your WebSphere Commerce server (for example, `server.mydomain.ibm.com` is fully qualified).

instance_name

This variable represents the name of the WebSphere Commerce instance with which you are working (for example, `ma111`).

WAS_instance_name

This variable represents the name of the WebSphere Application Server with which your WebSphere Commerce instance is associated.

cell_name

This variable represents the name of the WebSphere Application Server cell.

Installation paths

When this book refers to installation paths, it uses the following default path names:

WebSphere Commerce - Express Version 5.5	<i>WC_installdir</i>
WebSphere Application Server Version 5.0.2	<i>WAS_installdir</i>

Refer to “Path variables” on page 13 for more information on how this book refers to installation paths for the various installed products.

Supported Web browsers

You can only access the WebSphere Commerce tools and online help using Microsoft® Internet Explorer 6.0 from a machine running a Windows® operating system on the same network as your WebSphere Commerce machine. You must use Internet Explorer full version 6.0 (also known as Internet Explorer 6.0 Service Pack 1 and Internet Tools) with the latest critical security updates from Microsoft — prior versions do not support full functionality of WebSphere Commerce tools.

Shoppers can access Web sites by using any of the following Web browsers, all of which have been tested with WebSphere Commerce:

- AOL 7 or above for Windows
- Microsoft Internet Explorer:
 - Version 5.5 or higher for Windows
 - Version 5 or higher for Macintosh
- Mozilla Version 1.0 or higher
- Netscape Version 6.0 or higher
- Netscape Navigator Version 4.6 or higher

Port numbers used by WebSphere Commerce - Express

The following is a list of the default port numbers used by WebSphere Commerce or its component products. Please ensure that you do not use these ports for non-WebSphere Commerce applications. If you have a firewall configured in your system, ensure that you can access these ports.

Port Number

Used By

80 IBM HTTP Server.

- 389 Lightweight Directory Access Protocol (LDAP) Directory Server.
- 443 IBM HTTP Server – secure port. This secure port requires SSL.
- 1099 WebSphere Commerce Configuration Manager server.
- 2809 WebSphere Application Server Bootstrap address.
- 5432 WebSphere Commerce Payments non-secure server.
- 5433 WebSphere Commerce Payments secure server. This secure port requires SSL.
- 5557 WebSphere Application Server Internal Java™ Messaging Service server.
- 5558 WebSphere Application Server Java Messaging Service server queued address.
- 5559 WebSphere Application Server Java Messaging Service direct address.
- 7873 WebSphere Application Server DRS client address.
- 8000 WebSphere Commerce Accelerator. This secure port requires SSL.
- 8002 WebSphere Commerce Administration Console. This secure port requires SSL.
- 8004 WebSphere Commerce Organization Administration Console. This secure port requires SSL.
- 8008 IBM HTTP Server Administration port.
- 8880 WebSphere Application Server SOAP Connector address.
- 9043 WebSphere Application Server Administration Console Secure Port. This secure port requires SSL.
- 9080 WebSphere Application Server HTTP Transport.
- 9090 WebSphere Application Server Administration Console Port.
- 9443 WebSphere Application Server HTTPS Transport Port.
- 9501 WebSphere Application Server Secure Association Service.
- 9502 WebSphere Application Server Common Secure Port.
- 9503 WebSphere Application Server Common Secure Port.

Locales used by WebSphere Commerce - Express

WebSphere Commerce uses valid Java locales only. Ensure that your systems have the appropriate locale installed for your language. Ensure that any locale-related environment variables are set to include the WebSphere Commerce-supported locale. Locale codes supported by WebSphere Commerce are shown in the table below.

Language	Locale Code
German	de_DE
English	en_US
Spanish	es_ES
French	fr_FR
Italian	it_IT
Japanese	ja_JP
Korean	ko_KR
Brazilian Portuguese	pt_BR
Simplified Chinese	zh_CN
Traditional Chinese	zh_TW

Quick reference to user IDs, passwords and URLs

Administration in the WebSphere Commerce environment requires a variety of user IDs. These user IDs along with their requisite authorities are described in the table below. For the WebSphere Commerce user IDs, the default passwords are identified.

User ID	Default values	Notes
iSeries user profiles		<p>Two iSeries user profiles are used and referred to frequently when you install and configure WebSphere Commerce:</p> <ul style="list-style-type: none"> • A user profile which you create and use to install WebSphere Commerce and start the Configuration Manager. To install and configure WebSphere Commerce, you must use an iSeries user profile of USRCLS(*SECOFR) or use the QSECOFR user profile. If you need to create a user profile, refer to “Creating an iSeries user profile” on page 11. • A user profile which is created by the Configuration Manager when you create a WebSphere Commerce instance. This user profile is also referred to as the “instance user profile.” A user profile of USRCLS(*USER) is created by the Configuration Manager each time you create a WebSphere Commerce instance. If you need to create a user profile, refer to “Creating an iSeries user profile” on page 11.
Configuration Manager user ID	The default Configuration Manager user ID and password are webadmin and webibm	The Configuration Manager tool’s graphical interface allows you to modify the way WebSphere Commerce is configured. You can access Configuration Manager from any machine that supports Microsoft Internet Explorer 6.0, and which is on the same network as the WebSphere Commerce machine, and has the Configuration Manager client installed.

User ID	Default values	Notes
WebSphere Commerce Site Administrator	<p>Not applicable.</p> <p>The Site Administrator ID and password are created as part of the Quick installation.</p>	<p>The Site Administrator user ID and password apply to the following WebSphere Commerce tools:</p> <ul style="list-style-type: none"> • WebSphere Commerce Accelerator. To access the WebSphere Commerce Accelerator, open Internet Explorer on a Windows machine on the same network as the WebSphere Commerce machine, and enter the following URL: <code>https://host_name:8000/accelerator</code> • WebSphere Commerce Administration Console. To access the WebSphere Commerce Administration Console, open Internet Explorer on a Windows machine on the same network as the WebSphere Commerce machine, and enter the following URL: <code>https://host_name:8002/adminconsole</code> • WebSphere Commerce Organization Administration Console. To access the WebSphere Commerce Organization Administration Console, open Internet Explorer on a Windows machine on the same network as the WebSphere Commerce machine, and enter the following URL: <code>https://host_name:8004/orgadminconsole</code> <p>WebSphere Commerce requires that the user ID and password adhere to the following rules:</p> <ul style="list-style-type: none"> • The password must be at least 8 characters in length. • The password must include at least 1 numeric character. • The password must include at least 1 alphabetic character. • The password does not contain more than 4 occurrences of a character. • The password does not repeat the same character more than 3 times.

User ID	Default values	Notes
WebSphere Commerce Payments Administrator	When you install WebSphere Commerce Payments, the WebSphere Commerce Site Administrator ID is automatically assigned the WebSphere Commerce Payments Administrator role.	The WebSphere Commerce Payments Administrator role enables a user ID to control and administer WebSphere Commerce Payments.

Chapter 2. Preinstallation requirements

This section describes the steps you need to perform before you install WebSphere Commerce - Express.

Important

You *must* complete these preinstallation steps to ensure that installation is successful.

Knowledge requirements

To install and configure WebSphere Commerce - Express, you require knowledge of the following:

- Your operating system
- The Internet
- Web server operation and maintenance
- IBM DB2 Universal Database™ for iSeries
- Basic Command Language commands

To create and customize your store, you require knowledge of the following:

- WebSphere Application Server
- IBM DB2 Universal Database for iSeries
- HTML and XML
- Structured Query Language (SQL)
- Java programming

For information on developing your store front and store data assets, refer to the *WebSphere Commerce Store Development Guide*. For information on developing or customizing your business logic (or back office business logic) see the *WebSphere Commerce Programming Guide and Tutorials* document.

Prerequisite hardware

You must ensure that you meet the following minimum hardware requirements before installing WebSphere Commerce - Express:

- Any of the following servers (recommended minimums):
 - AS/400e™ Server Model 170 with processor feature 2385
 - AS/400e Server Model 720 with processor feature 2062

- @server iSeries Server Model 270 with processor feature 2252
- @server iSeries Server Model 810 with processor feature 2465 and a CPW of 750
- @server iSeries Server Model 820 with processor feature 2396
- 1.5 GB memory (recommended minimum)

Note: Systems below these recommended minimums may be used in environments that support a limited number of users and where longer server initialization times can be tolerated.

Furthermore, you require the following:

- A workstation, running a Windows operating system and capable of running a Web browser such as Internet Explorer with a graphics-capable monitor
- A mouse or other pointing device
- A local area network (LAN) adapter that is supported by the Transmission Control Protocol/Internet Protocol (TCP/IP) protocol

Prerequisite software

You must ensure that you meet the following minimum software requirements before installing WebSphere Commerce:

- OS/400[®] Version 5 Release 2 (V5R2M0) or higher (5722SS1) which includes:
 - DB2 Universal Database for iSeries V5R2M0
 - Host Servers (5722SS1 option 12)

You can start the host servers by using the Start Host Server (STRHOSTSVR) command by typing STRHOSTSVR *ALL on the OS/400 command line. The QSERVER subsystem must be running on the iSeries system.
 - QShell Interpreter (5722SS1 option 30)
 - Portable App Solutions Environment (5722SS1 option 33)
 - Digital Certificate Manager (5722SS1 option 34)
 - International Components for Unicode (5722SS1 option 39)
- IBM Java Developer Kit, Version 1.3 (5722JV1 option 5)
- IBM HTTP Server Powered by Apache (5722DG1).
- Crypto Access Provider 128-Bit for AS/400[®] (5722AC3)
- TCP/IP Connectivity Utilities (5722TC1)
- In addition, you may also want to install the following optional products:
 - iSeries Access (5722XW1, options *BASE and 1)
 - iSeries Access for Windows (5722XE1)

- DB2[®] Query Manager and SQL Development Kit (5722ST1)
- WebSphere Application Server Network Deployment (5733WS5 option 5)
- LDAP Directory Services (5722SS1). The LDAP product is included with OS/400 V5R2M0, and will already be installed on your iSeries system.

Creating an iSeries user profile

Before you install WebSphere Commerce, ensure that you have access to the QSECOFR user profile, or an iSeries user profile of USRCLS(*SECOFR).

If you need to create an iSeries user profile, you can either use the OS/400 command line or use iSeries Access. If you are using the command line, do the following to create a user profile:

1. Enter CRTUSRPRF.
2. Press PF4 for a prompt.
3. Complete the necessary parameters, and then press Enter to create the user profile.

If you are using iSeries Access, do the following to create a user profile:

1. On the navigation tree, double-click the iSeries server where you want to create the new user.
2. Double-click **Users and Groups**.
3. Click **All Users**. A list of all of the users on the iSeries displays in the right panel.
4. Right-click **All Users**, then select **New User**. A New User window opens.
5. Enter the required information, and then press Add to create the user profile.

The iSeries user profile should be created with the following localized settings:

Table 1. Localized settings for iSeries user profiles

Language	CCSID	LangID	CountryID
English	37	ENU	US
French	297	FRA	FR
German	273	DEU	DE
Italian	280	ITA	IT
Spanish	284	ESP	ES
Brazilian Portuguese	37	PTB	BR
Japanese	5035	JPN	JP
Korean	933	KOR	KR

Table 1. Localized settings for iSeries user profiles (continued)

Language	CCSID	LangID	CountryID
Traditional Chinese	937	CHT	TW
Simplified Chinese	935	CHS	CN

Using an iSeries user profile other than those defined above may work, but has not been tested.

After the iSeries user profile has been created, use the **DSPUSRPRF** command to determine the Home Directory (HOMEDIR). Ensure that the HOMEDIR exists on your iSeries system. If the HOMEDIR does not exist, create it using the OS/400 command: MKDIR. (The HOMEDIR will be denoted as *home_directory* below.)

The HOMEDIR must contain a file named `SystemDefault.properties`, tagged as 819 and containing ASCII data. This file must specify the `file.encoding` property that matches your iSeries user profile. The `file.encoding` property must be specified on one line, must contain no spaces, and is case sensitive. The `file.encoding` property can be one of the following values:

- Simplified Chinese:
`file.encoding=Cp1381`
- Korean:
`file.encoding=KSC5601`
- Traditional Chinese:
`file.encoding=Cp950`
- Japanese:
`file.encoding=SJIS`
- All other languages:
`file.encoding=IS08859_1`

To create the `SystemDefault.properties` file do the following:

1. On a PC, using NotePad, create a file named `SYSDFT.FILE`
2. In this file, enter the appropriate `file.encoding` line for you language (as shown above). For example:
`file.encoding=IS08859_1`
3. Save this file and copy it to your iSeries system in the */home_directory*
4. From an OS/400 command line, enter the following:

```
COPY OBJ('/home_directory/SYSDFT.FILE')
      TOOBJ('/home_directory/SystemDefault.properties')
      TOCCSID(819)
```
5. Once the new file is created, ensure that it contains the proper ASCII data.

Path variables

The following variables are used for paths in this book:

WAS_installdir

The installation directory for WebSphere Application Server on your machine: /QIBM/ProdData/WebAS5/Base.

WAS_userdir

The directory for all the data that is used by WebSphere Application Server which can be modified or needs to be configured by the user: /QIBM/UserData/WebAS5/Base/*WAS_instance_name*.

WC_installdir

The installation directory for WebSphere Commerce. It contains all the WebSphere Commerce proprietary data on your machine: /QIBM/ProdData/CommerceServer55.

WC_userdir

The directory for all the data that is used by WebSphere Commerce which can be modified or needs to be configured by the user: /QIBM/UserData/CommerceServer55.

Note: The above default installation paths cannot be altered or modified on iSeries. The WebSphere Commerce for iSeries product expects the above directories to exist, and will not function properly if they do not exist.

Chapter 3. Understanding iSeries unique concepts

This chapter describes concepts that are unique to the IBM® @server iSeries and the OS/400 operating system. It includes the following:

- A discussion of the different file systems within the Integrated File System (IFS)
- File organization for the WebSphere Commerce system

The root file system

The root, or /, file system takes full advantage of the hierarchical directory structure and stream file support of the Integrated File System. The root file system has the characteristics of the DOS and OS/2® file systems.

WebSphere Commerce uses a divided root file structure. All the data that is used by WebSphere Commerce which can be modified or needs to be configured by the user is placed in the UserData subdirectory, and all of the WebSphere Commerce proprietary data is placed in the ProdData subdirectory. This has been done to make a clear distinction between the two types of information, to make future migration as simple as possible, and to facilitate the servicing of files therein.

Notes:

1. You can only change the files that are contained in the instance root path, which by default is:

WC_userdir/instances/instance_name

Default values for *WC_userdir* are listed in "Path variables" on page 13.

2. When the instance's Enterprise application is deployed, all of the JSP files and other assets are stored in:

WAS_userdir/installedApps/cell_name/WC_instance_name.ear

Files in this directory can be modified as well. Default values for *WAS_userdir* are listed in "Path variables" on page 13.

When you configure WebSphere Commerce for a particular instance, the Configuration Manager copies all of the required files for the selected configuration option to the *WC_userdir* path. You should not change the original files, contained in the following path:

WC_installdir

Default values for *WC_installdir* and *WC_userdir* are listed in “Path variables” on page 13.

Attention: Applying PTFs or reinstalling the product may delete or overwrite the files in the ProdData directory path. You should therefore not store any customized files in the ProdData directory path.

The table below lists the directories and stream files that are created by the WebSphere Commerce installation and configuration process and stored in the root file system. The directory path */instance_root/* refers to the directory path *WC_userdir/instances/instance_name*, where *instance_name* is the name you provide for your instance during configuration.

Path	Significance
<i>/instance_root/xml/instance_name.xml</i>	The instance configuration file. This file contains configuration settings for the WebSphere Commerce server.
<i>/instance_root/web</i>	The IBM HTTP Server document root directory.
<i>/instance_root/conf</i>	The directory containing the IBM HTTP Server configuration file (<i>httpd.conf</i>).
<i>WAS_userdir/installedApps/cell_name/WC_instance_name.ear</i>	The directory containing instance properties files. For exact location of customized assets, refer to the <i>WebSphere Commerce Programming Guide and Tutorials</i> document.
<i>/instance_root/logs</i>	The directory containing WebSphere Commerce log files.
<i>/instance_root/xml</i>	The directory containing WebSphere Commerce instance configuration XML files.

Default values of *WAS_userdir* are listed in “Path variables” on page 13.

Chapter 4. Recommended topologies

This chapter describes recommended topologies for WebSphere Commerce - Express components and the supporting software, such as the database server and the Web server. The topologies described in this chapter are the most common topologies used with WebSphere Commerce - Express, however other topologies of WebSphere Commerce - Express are still possible.

In all topologies, all nodes must be running the same operating system at the same level. This includes any patches, revisions, service packs or fix packs required by WebSphere Commerce - Express.

In this chapter the following terms are used:

database node

A node in a topology that only contains the database server used by WebSphere Commerce - Express.

Web server node

A node in a topology that only contains the Web server used by WebSphere Commerce - Express.

WebSphere Commerce node

A node in a topology that contains the WebSphere Commerce server. While the node may also contain the database server or Web server, depending on the topology, if a node contains the WebSphere Commerce server, it will be referred to as the WebSphere Commerce node.

One-node topology

In a one-node topology, all WebSphere Commerce - Express components and the supporting software are installed on a single node. This includes your database server, Web server, WebSphere Application Server, WebSphere Commerce Payments, and the WebSphere Commerce server.

Installing WebSphere Commerce - Express in a one-node topology

To install WebSphere Commerce in a one-node topology, you have two options:

Quick installation

You can only use the quick installation option of the WebSphere Commerce - Express installation wizard to install WebSphere Commerce - Express in a one-node topology if the machine meets the following criteria:

- No version or edition of WebSphere Commerce is installed on the machine.
- No version or edition of WebSphere Application Server is installed on the machine.

During a quick installation, you can choose not to install the WebSphere Commerce Payments component, but all other WebSphere Commerce components and supporting software are installed.

A quick installation creates a WebSphere Commerce instance after all components and supporting software have been installed. If you choose to install WebSphere Commerce Payments, a WebSphere Commerce Payments instance is created.

Instructions for completing a quick installation are provided in *WebSphere Commerce - Express Quick Beginnings*.

Custom installation

You can use the custom installation option of the WebSphere Commerce - Express installation wizard to install WebSphere Commerce - Express in a one-node topology as long as the following conditions have been met:

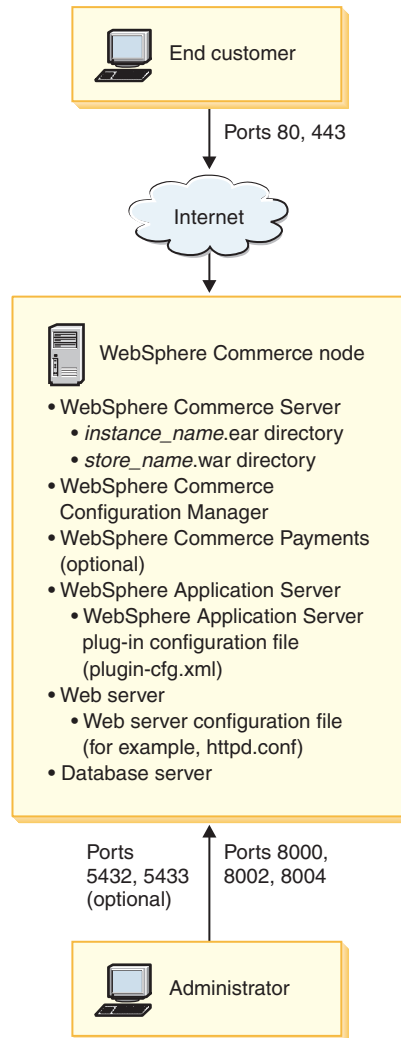
- The node meets the hardware, operating system, and networking requirements for WebSphere Commerce - Express.
- If WebSphere Application Server is already installed on the node, WebSphere Application Server must be the edition and version of WebSphere Application Server supported by WebSphere Commerce - Express.

If you have WebSphere Application Server Version 5.0 or Version 5.0.1 installed, ensure that is upgraded to WebSphere Application Server Version 5.0.2 after the installation of WebSphere Commerce - Express.

A custom installation does not create a WebSphere Commerce instance or a WebSphere Commerce Payments instance. The instances must be created after completing the installation.

Instruction for completing a custom installation are provided in *WebSphere Commerce - Express Installation Guide*.

The following diagram shows a one-node topology:



Note: WebSphere Commerce Configuration Manager consists of two components: a GUI client and a server. The Configuration Manager server is always installed on the same node as WebSphere Commerce Server and WebSphere Commerce Payments.

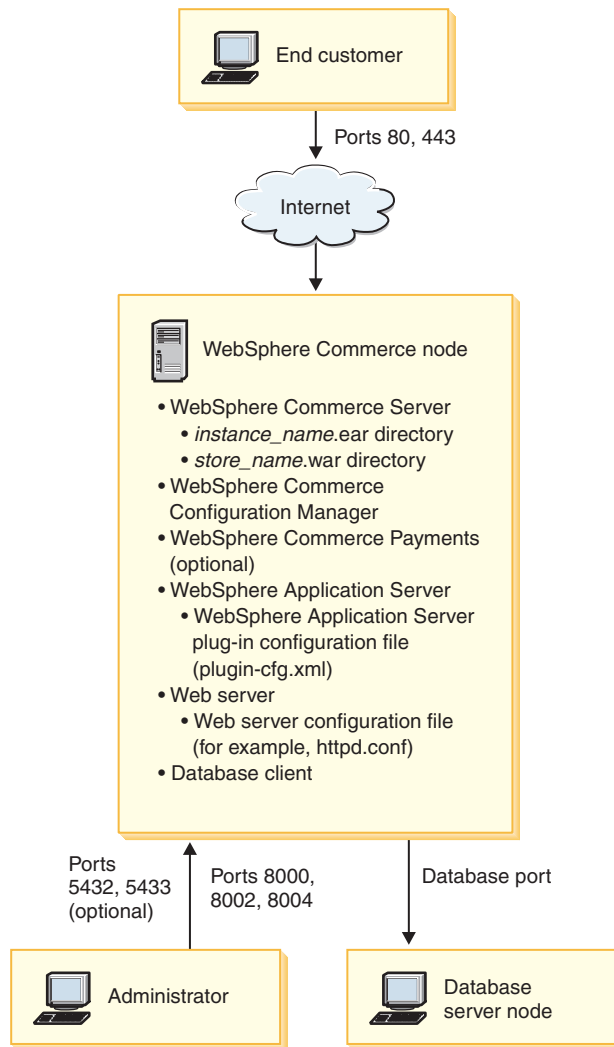
In order to use the WebSphere Commerce Configuration Manager client, you must install the client software on a workstation capable of displaying graphics.

The WebSphere Commerce Configuration Manager client can be installed separately using the custom installation option of the installation wizard.

Two-node topology

In a two-node topology, the database server is installed on one node and all WebSphere Commerce - Express components and the Web server are installed on a different node.

The following diagram shows a two-node topology:



Note: WebSphere Commerce Configuration Manager consists of two components: a GUI client and a server. The Configuration Manager server is always installed on the same node as WebSphere Commerce Server and WebSphere Commerce Payments.

In order to use the WebSphere Commerce Configuration Manager client, you must install the client software on a workstation capable of displaying graphics.

The WebSphere Commerce Configuration Manager client can be installed separately using the custom installation option of the installation wizard.

Development environment topologies

The WebSphere Commerce development environment supports the following topologies:

one-node development topology

In this topology, all components of the WebSphere Commerce development environment are installed on a single node.

two-node development topology

In this topology, the database server is installed on one node and all other WebSphere Commerce development environment components are installed on another node.

three-node development topology

In this topology, the database server is installed on one node, WebSphere Commerce Payments is installed on a second node, and the remaining WebSphere Commerce components are installed on a third node.

The three-node development topology is not directly supported by the WebSphere Commerce development environment installation wizard since a full installation of WebSphere Commerce Payments is required — WebSphere Commerce Payments running in the development environment is not supported in this topology.

It is recommend that you install the WebSphere Commerce development environment on a separate node from the nodes that make up the WebSphere Commerce production, testing, or staging environments.

Instructions on installing the development environment are provided in *WebSphere Commerce - Express Developer Edition Installation Guide*.

Chapter 5. Installing WebSphere Commerce - Express

The instructions in this chapter will guide you through the installation and configuration of WebSphere Commerce - Express on a single node. This installation should be performed under the following conditions:

- You want to install the following components on the same node and none of these components are pre-installed on the node:
 - WebSphere Application Server base product, Version 5.0.2
 - WebSphere Commerce Server
 - WebSphere Commerce Payments (optional)

Notes:

1. Before beginning a Quick installation, ensure that TCP/IP port 1099 is not in use on your iSeries system.

To check if port 1099 is in use, do the following:

- a. From the iSeries command line, enter the following command:

```
netstat *cnn
```

- b. On the **Work with TCP/IP Connection Status** screen, ensure that port 1099 is not listed. Ensure that you page through the entire listing.

If port 1099 is in use, it will need to be stopped before Quick installation is started.

2. A Quick installation will install WebSphere MQ classes for Java (5639C34) on your iSeries system if it is not already installed. The installation of the WebSphere MQ classes for Java (5639C34) will fail if your iSeries has subsystem QMQM active. Ensure that subsystem QMQM is ended prior to starting a Quick installation.
3. If you want to create a WebSphere Commerce instance in a language other than the language in which you are installing, you cannot use the Quick installation.
4. If you want to create a WebSphere Commerce instance using a database that resides on a system that is remote from the system where you are installing WebSphere Commerce, you cannot use the Quick installation.

A successful Quick installation will create a WebSphere Commerce instance (with a name of your choosing). If WebSphere Commerce Payments is installed, a WebSphere Commerce Payments instance named `wpm` will be created.

Completing a Quick installation

You can install the WebSphere Commerce Version 5.5 product on your iSeries machine in two ways:

- From a Windows 2000 machine, or any version of a Windows machine that supports Universal Disk Format (UDF) CDs (recommended method):
 - The Windows machine needs to have a CD drive and be connected on the same TCP/IP network as your iSeries machine.
 - The GUI installation panels will guide you through the installation process. Depending on your network and iSeries machine, the installation time may take up to 3 hours.
 - This type of installation is called a *Graphical Install*.
- From an iSeries 5250 session (alternative method)
 - The OS/400 command line installation will guide you through the installation process.
 - Depending on your iSeries machine, the install time may take 3 hours or longer.
 - This type of installation is called a *Console Install*

The Quick installation, covered in this guide, refers only to the graphical install method. For Custom Installations, refer to the *WebSphere Commerce - Express Installation Guide* where both the graphical and console installation methods are covered.

To complete a Quick installation, do the following:

1. Insert the WebSphere Commerce - Express CD 1 into the CD-ROM drive on your remote Windows system.

The WebSphere Commerce - Express LaunchPad starts. Select the language for the LaunchPad and click **OK** to continue.

Note: The language selection is only available in the National Language version of WebSphere Commerce - Express and not available for the English version.

The LaunchPad provides the following options:

ReadMe File

This option displays the WebSphere Commerce - Express README file.

Quick Beginnings Guide

This option opens the PDF version of this book if Adobe Acrobat Reader is installed on the system on which you are running the LaunchPad.

Install Product

This option starts the WebSphere Commerce - Express installation wizard.

Product Library

This option opens your default Web browser to display the WebSphere Commerce Library Web site.

Support

This option opens your default Web browser to display the WebSphere Commerce Support Web site.

Exit This option exits the LaunchPad.

If the LaunchPad does not start automatically when you insert the CD, do the following:

- a. Start a command prompt session.
- b. Switch directories to the WebSphere Commerce - Express CD 1 CD-ROM drive.
- c. Enter the following command:
autorun.exe

Click **Install Product** to start the installation wizard.

Note: If you have not started the installation wizard from the LaunchPad, do the following:

- a. Start a command prompt session.
 - b. Switch directories to the WebSphere Commerce - Express CD 1 CD-ROM drive.
 - c. Enter the following command:
iSeriesServer.bat
2. On the iSeries Logon Information window, enter the System Name, User Profile and Password for the iSeries system on which you are installing WebSphere Commerce. Ensure that you log on to your iSeries system as a user with QSECFR class authority. Select **Next**.
 3. For National Language versions only, select the installation language, and select **OK**. The software will be installed in this language, regardless of the language settings of your system.

Important: The language selected here becomes the default language for the WebSphere Commerce instance. Attempting to create a WebSphere Commerce instance with a default language different from the language selected here will cause the WebSphere Commerce instance to be populated with invalid data.

For the English language version, this selection panel does not appear, the installation language is English (en_US) by default.

4. Read the Welcome screen, and select **Next**.
5. Read the license agreement. If you accept the terms of agreement, select that you accept the terms, and select **Next**.
6. When prompted to select an installation type, select **Quick Installation**, and select **Next**.
7. The default destination directory for WebSphere Commerce displays. Select **Next**.
8. Choose whether or not you want to install WebSphere Commerce Payments, then click **Next**.

If you choose not to install WebSphere Commerce Payments, you can install WebSphere Commerce Payments later by using the **Custom Installation** option of the WebSphere Commerce installation wizard. For more information, refer to *WebSphere Commerce - Express Installation Guide*.

Note: If you plan to publish the FashionFlow sample store in WebSphere Commerce - Express, you must install WebSphere Commerce Payments. For more information on the FashionFlow sample store, refer to *WebSphere Commerce Sample Store Guide*.

WebSphere Commerce Payments is not required to publish the ExpressStore.sar store archive file. For more information on the Express Store, refer to *WebSphere Commerce - Express Easy Start Guide*.

9. Enter the following information:

Instance name

Enter a name for the WebSphere Commerce instance. The instance user profile will be created with this name. The maximum length is 10 characters.

Ensure that the instance name does not contain any double-byte characters.

Instance password

Enter a password for the WebSphere Commerce instance user profile.

This password is also used as the WebSphere Commerce Payments instance password.

Ensure that you enter the same value in the Instance password field and the verification field.

Click **Next** to continue.

10. Enter the following information:

Local CA password

Local CA password in Digital Certificate Manager. If you do not have a local CA created in Digital Certificate Manager, the Quick installation will create it for you and use this parameter as the password. If you have local CA created, the Quick installation will use this parameter to do the authentication.

Ensure that you enter the same value in the local CA password field and the verification field.

System store password

The password of the *SYSTEM certificate store in Digital Certificate Manager. If the *SYSTEM certificate store does not exist in Digital Certificate Manager, the Quick installation will create it for you and use this parameter as the password. If you have the *SYSTEM certificate store created, the Quick installation will use this parameter to do the authentication.

Ensure that you enter the same value in the system store password and the verification field.

Click **Next** to continue.

11. Enter the following information:

Site Administrator ID

Enter an ID for the WebSphere Commerce Site Administrator. This ID will be required to access the WebSphere Commerce Accelerator, Administration Console, and Organization Administration Console. This ID will also be assigned the WebSphere Commerce Payments Administrator role.

Important: Ensure that you do not forget the Site Administrator ID and password entered when installing WebSphere Commerce. Without this ID and password, you will not be able to access WebSphere Commerce Accelerator, Administration Console, or Organization Administration Console.

Site Administrator password

Enter the password for the Site Administrator. The Site Administrator password must contain at least 8 characters.

Merchant Key

Enter a 16–digit hexadecimal number that meets the following criteria:

- Must contain at least one numeric character (0–9)
- Must contain at least one alphabetic character (a–f)

Important: Uppercase letters are not valid in the merchant key.

- Cannot contain four consecutive occurrences of a character

A hexadecimal number can only contain the following numbers and letters: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, a, b, c, d, e, f.

The merchant key is used by the WebSphere Commerce Configuration Manager as an encryption key. You must enter your own key in the **Merchant key** field. Ensure that the key that you enter will be sufficient to protect your site. After you have created a store you can only change this key by using the Database Update Tool. To use this tool, access Configuration Manager, navigate to the database node for the WebSphere Commerce instance, right-click on the database node, and select **Run Database Update Tool**.

Click **Next** to continue.

12. Select the languages of the documentation that you want installed, then click **Next** to continue.
13. Confirm your installation choices, then select **Next**.

To modify your choices, select **Back**

14. Insert the IBM WebSphere Application Server CD Disk 1 into the CD-ROM drive on the Windows system, and click **Next**.

A DOS window opens. The details of the WebSphere Application Server product installation are shown.

15. When the message "Insert disk 2 of 2. Please press Enter key when ready." is shown, insert the IBM WebSphere Application Server CD Disk 2 into the CD-ROM drive on the Windows system, then press **Enter**.

The following messages should appear when the installation is complete:

- Installation completed successfully.
- Please read the Installation and Initial Configuration documentation.
- Please press the Enter key to end the installation program.

After you press **Enter**, the DOS window will close.

16. Navigate back to the WebSphere Commerce install screen and reinsert the WebSphere Commerce Disk 1 CD into the CD-ROM drive on the Windows system, and click **Next**.
 - The WebSphere Commerce installation begins. A window indicating the percentage that has completed is shown in the bottom corner of the screen.
 - The WebSphere Commerce Server instance creation panel displays. The percentage complete is shown in this window.

- If you chose to install WebSphere Commerce Payments, the WebSphere Commerce Payments instance creation panel is shown. The percentage complete is shown in this window.
17. A Summary Panel of the installation displays; select **Next** to continue.
 18. On the InstallShield Wizard panel, select **Next** to continue
 19. Review the Installation Complete panel. Click **Finish** to exit the installation wizard.

Note: After you have completed the Quick installation, you need to apply the WebSphere Application Server PTFs. Refer to the WebSphere Commerce - Express product README file for information on applying these PTFs. The latest version of the README is available from the WebSphere Commerce Technical Library Web site (<http://www.software.ibm.com/software/commerce/wscom/library/lit-tech.html>).

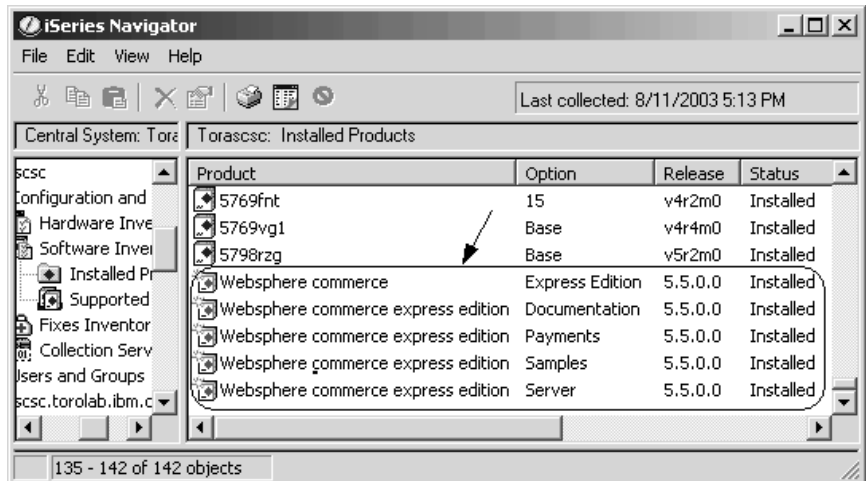
Verifying your installation

To verify that your custom installation of WebSphere Commerce - Express was successful, check the following:

1. The following libraries should exist on your @server iSeries system:
 - QWBCOMM55 — WebSphere Commerce Server library
 - QCPYMS, QCPYMS55 — WebSphere Commerce Payments libraries
 - QEJBAS5 — WebSphere Application Server library
2. Depending on the components installed, the Integrated File System (IFS) on your @server iSeries system will have one or more of the following directories:
 - /QIBM/ProdData/CommerceServer55
 - /QIBM/ProdData/CommercePayments/V55
 - /QIBM/ProdData/WebAS5
3. Use iSeries Navigator to show what products have been installed on your @server iSeries system:
 - a. On a PC where iSeries Navigator can be accessed, click **Start** → **Programs** → **IBM iSeries Access for Windows** → **iSeries Navigator**
 - b. In the iSeries Navigator window, expand **Management Central** → **Endpoint Systems**
 - c. Right-click on the applicable iSeries system and click **Inventory** → **Collect**
 - d. A new window opens. Ensure that the **Software** check box is selected. Click **OK** to start the collection
 - e. Expand **Management Central** → **Task Activity** → **Inventory**

- f. In the right-hand panel, a task for your iSeries system should be listed. Press the F5 key (refresh) until the Status shows 'Completed'
- g. Click **Management Central** → **Endpoint Systems** → *iSeries system* → **Configuration and Service** → **Software Inventory** → **Installed Products**
- h. The right-hand panel will show a listing of products. Scroll to the bottom to view the WebSphere Commerce products.

The following diagram is an example of what you will see if all components were installed successfully:



After verifying your installation using the iSeries Navigator, you can continue by verifying your installation using the log files generated during the installation. The log files are described in “Verifying your installation using log files”.

Verifying your installation using log files

During the installation of WebSphere Commerce - Express and its components, log files are generated. Examine the following log files to ensure that your installation was successful:

- “WebSphere Commerce - Express installation log”
- “WebSphere Application Server installation log” on page 31
- “WebSphere Commerce instance creation logs” on page 31

To confirm the installation of any non-IBM software, refer to the documentation provided with the non-IBM software package.

WebSphere Commerce - Express installation log

This log file contains messages generated by the WebSphere Commerce - Express installation wizard. The default location for this log file is:

`/Installlogs/install_date_time.log`

If the installation of WebSphere Commerce - Express was successful, the following messages will appear at the end of the log file:

```
CMN7704S: IBM WebSphere Commerce Installer has successfully copied file from
\tmp\InstallShield\uninstall.qsh to
\QIBM\ProdData\CommerceServer55\_uninst\uninstall.qsh
```

```
CMN7720S: IBM WebSphere Commerce Installer internal Generic Catch Warning
caught:
COMMAND ENDED NORMALLY WITH EXIT STATUS 0.
/QIBM/ProdData/CommerceServer55/bin/iSeriesFileAuth.sh
```

This message is formatted to fit the page size of this book. The message may appear differently in your log file.

WebSphere Application Server installation log

The WebSphere Application Server installation log file (`WS5ISTDOUT.LOG`) will be located on the Windows PC from where the install was completed. The log file will be located in the temporary folder of the PC user that was signed on when the installation was started. For example, on a Windows 2000 machine, the log file may be located in the following directory:

`drive:/Documents and Settings/PC_user/Local Settings/Temp/WebSphere`

The WebSphere Application Server installation is complete if the following message appears in the `WS5ISTDOUT` log file:

Installation completed successfully.

WebSphere Commerce instance creation logs

Instance creation during the WebSphere Commerce installation creates the following log files:

- `auction.log`
- `createdb.log`
- `createdb.production.log`
- `GenPluginCfg.log`
- `populatedb.err.log`
- `populatedb.log`
- `populatedb2.err.log`
- `populatedb2.log`
- `populatedbnl.log`
- `populatedbnl.err.log`
- `Schema.log`
- `WASConfig.err.log`
- `WASConfig.log`

The files are located in the following directory:

WC_userdir/instances/instance_name/logs

Default values for *WC_userdir* are listed in “Path variables” on page 13 and *instance_name* is your WebSphere Commerce instance.

Instance creation is successful if the following logs are empty:

- populatedb.err.log
- populatedb2.err.log
- populatedbnl.err.log
- WASConfig.err.log

Also, review the contents of the following files to confirm they do not contain any errors:

- createdb.log
- messages.txt

If instance creation failed, the WebSphere Commerce instance can be created manually by following the instructions in the *WebSphere Commerce - Express Installation Guide*.

The installation of WebSphere Commerce - Express creates an entry in the License Information table on your iSeries system. To change the information for the WebSphere Commerce - Express, do the following:

1. From the iSeries command line, enter the following command:
`WRKLICINF`
2. Scroll down to **PRODUCT 5724A18** and type a 2 in the **OPT** field.
3. In the **USGLMT** field, change the value to the number of processors for which you are licensed.
4. Press ENTER. Additional parameters will be shown.
5. Alter the additional parameters if necessary.
6. Press ENTER to accept the changes.

The next step

After installing WebSphere Commerce - Express and verifying the installation, continue with the configuration of WebSphere Commerce - Express and the creation of the Express store by following the instructions in the *WebSphere Commerce - Express Easy Start Guide*.

Chapter 6. Uninstalling WebSphere Commerce - Express components

WebSphere Commerce - Express components must be uninstalled in the reverse order from which they were installed. Uninstall WebSphere Commerce - Express components in the following order:

1. WebSphere Commerce Configuration Manager client
2. WebSphere Commerce - Express, WebSphere Commerce Payments, and the WebSphere Commerce Configuration Manager server

These components should be removed from all nodes on which they are installed before uninstalling any other components.

3. WebSphere Application Server

Note: For more detailed instructions on uninstalling the above components, see the *WebSphere Commerce - Express Installation Guide*. In the event that your installation fails, it may be necessary to uninstall all components and reattempt the installation.

Uninstalling WebSphere Commerce - Express, WebSphere Commerce Payments, or the WebSphere Commerce Configuration Manager client

For information on uninstalling WebSphere Commerce, WebSphere Commerce Payments, or the WebSphere Commerce Configuration Manager client, refer to *WebSphere Commerce - Express Installation Guide*. This publication is available through the WebSphere Commerce library:

<http://www.ibm.com/software/commerce/library/>

Uninstalling WebSphere Application Server

For information on uninstalling WebSphere Application Server, refer to *IBM WebSphere Application Server Version 5 Getting Started*. This publication is available through the WebSphere Application Server library:

<http://www.ibm.com/servers/eserver/series/software/websphere/wsappserver/docs/docws50.html>

Chapter 7. Where to find more information

More information about the WebSphere Commerce system and its components is available from a variety of sources in different formats. The following sections indicate what information is available and how to access it.

WebSphere Commerce information

The following are the sources of WebSphere Commerce information:

- WebSphere Commerce online help
- WebSphere Commerce technical library

WebSphere Commerce online help

The WebSphere Commerce online information is your primary source of information for customizing, administering, and reconfiguring WebSphere Commerce. After you have installed WebSphere Commerce, you can access topics in the online information by visiting the following URL:

`https://host_name:8000/wche1p/`

where *host_name* is the fully qualified host name of your WebSphere Commerce instance as defined in “Variables used in this book” on page 2.

WebSphere Commerce technical library

The WebSphere Commerce technical library is available at the following URL:

`http://www.ibm.com/software/commerce/library/`

A copy of this book, and any updated versions of this book, are available as PDF files from the Library section of the WebSphere Commerce Web site. In addition, new and updated documentation may also be available from the WebSphere Commerce technical library Web site.

WebSphere Commerce Payments information

Help for WebSphere Commerce Payments is available by clicking the following help icon:



This help icon displays on the WebSphere Commerce Payments user interface within the WebSphere Commerce Administration Console and WebSphere Commerce Accelerator and in the standalone WebSphere Commerce Payments user interface at the following URL:

http://host_name:http_port/webapp/PaymentManager

or

https://host_name:ssl_port/webapp/PaymentManager

Where the variables are defined as follows:

host_name

The fully qualified TCP/IP host name of the Web server associated with WebSphere Commerce Payments.

http_port

The HTTP port used by WebSphere Commerce Payments. The default HTTP port is 5432.

ssl_port

The SSL port used by WebSphere Commerce Payments. The default SSL port is 5433.

If WebSphere Commerce Payments is SSL-enabled, you can use either URL. If IWebSphere Commerce Payments is not SSL-enabled, you can only use the non-secure URL (http).

Help is also available at the following URL:

http://host_name:http_port/webapp/PaymentManager/language/docenter.html

or

https://host_name:ssl_port/webapp/PaymentManager/language/docenter.html

Where the variables are defined as follows:

host_name

The fully qualified TCP/IP host name of the Web server associated with WebSphere Commerce Payments.

http_port

The HTTP port used by WebSphere Commerce Payments. The default HTTP port is 5432.

ssl_port

The SSL port used by WebSphere Commerce Payments. The default SSL port is 5433.

language

A language code for the language in which the help page will be displayed. It is two letters for most languages. The language codes are as follows:

Language	Code
German	de
English	en
Spanish	es
French	fr
Italian	it
Japanese	ja
Korean	ko
Brazilian Portuguese	pt
Simplified Chinese	zh
Traditional Chinese	zh_TW

More information about WebSphere Commerce Payments and the Payments Cassettes is available at the WebSphere Commerce Technical Library:

<http://www.ibm.com/software/commerce/library/>

IBM HTTP Server information

IBM HTTP Server information is available at the IBM HTTP Server Web site:

<http://www.ibm.com/software/webservers/httpservers/>

The documents are in HTML format, PDF files, or both.

WebSphere Application Server information

WebSphere Application Server information is available at the WebSphere Application Server InfoCenter:

<http://www.ibm.com/software/webservers/appserv/infocenter.html>

DB2 Universal Database information

DB2 documentation is available at the DB2 Technical Library:

<http://www.ibm.com/software/data/db2/library/>

For information about SQL statements, refer to the DB2 Universal Database for iSeries SQL Reference at the following URL:

<http://publib.boulder.ibm.com/html/as400/infocenter.html>

Other IBM publications

You can purchase copies of most IBM publications from your IBM authorized dealer or marketing representative.

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