WebSphere® Commerce Developer

IBM

Version 5.7

Installation Guide

First Edition (April 2005)

This edition applies to Version 5.7 of the following editions of WebSphere Commerce Developer and to all subsequent releases and modifications until otherwise indicated in new editions:

- IBM WebSphere Commerce Developer Business Edition (product number 5724–i39)
- IBM WebSphere Commerce Developer Professional Edition (product number 5724–i41)
- IBM WebSphere Commerce - Express Developer Edition (product number 5724–i37)

Ensure that you are using the correct edition for the level of the product.

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About this book

Document description

This installation guide describes how to install and configure the following products:

- IBM® WebSphere® Commerce Developer Business Edition
- IBM WebSphere Commerce Developer Professional Edition
- IBM WebSphere Commerce - Express Developer Edition

It is intended for developers or system administrators who are using WebSphere Commerce Developer to develop store-front assets and back-office business logic to run with the following products:

- WebSphere Commerce Business Edition
- WebSphere Commerce Professional Edition
- WebSphere Commerce - Express

When developing for an edition of WebSphere Commerce, you must use the matching edition of WebSphere Commerce Developer. For example, when developing for WebSphere Commerce Professional Edition, you must use WebSphere Commerce Developer Professional Edition.

Conventions and terminology used in this book

This book uses the following highlighting 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.
Italic type	Used to emphasize words. Italics also indicate names for which you must substitute the appropriate values for your system.
host_name	The fully qualified host name of the WebSphere Commerce development environmentsystem (for example, `server1.torolab.ibm.com` is fully qualified).

 This icon marks a Tip - additional information that can help you complete a task.

Important
These sections highlight especially important information.

Attention
These sections highlight information intended to protect your data.

▶ Business	Indicates information specific to WebSphere Commerce Developer Business Edition
▶Professional	Indicates information specific to WebSphere Commerce Developer Professional Edition
Express	Indicates information specific to WebSphere Commerce - Express Developer Edition
▶Cloudscape	Indicates information specific to IBM Cloudscape™ database.
▶ DB2	Indicates information specific to DB2 Universal Database™. All references to *DB2 Universal Database* in this book refer to the edition of DB2 Universal Database supported by the edition of WebSphere Commerce Developer you are using. If you are using WebSphere Commerce Developer Business or Profession edition, DB2 Universal Database Enterprise Server Edition is supported. If you are using WebSphere Commerce Developer - Express, DB2 Universal Database Express Edition and DB2 Universal Database Enterprise Server Edition are supported.
Oracle	Indicates information specific to Oracle9i Database.

This book uses the following terms:

back-office business logic
> The part of your store that customers do not see. Back-office business logic includes WebSphere Commerce commands, data beans, enterprise beans

development machine
> The machine onto which you install WebSphere Commerce Developer to develop store-front assets or back-office business logic for WebSphere Commerce.

store data
> The information for a store that supports all customer activities. Store data includes catalog information, shipping charge information, and inventory information.

store-front assets
> The part of your store with which your customers interact. Store-front assets include HTML pages, JSP files, style sheets, images, graphics, and other multimedia file types that define the layout and content of your Web pages.

Path variables

This guide uses the following variables to represent directory paths:

WCDE_installdir
> This is the installation directory for the WebSphere Commerce toolkit. The default installation directory for the WebSphere Commerce toolkit, depends on your edition of WebSphere Commerce Developer:
>
> ▶ Business `C:\WCToolkitBE57`
>
> ▶Professional `C:\WCToolkitPro57`

> **Express** `C:\WCToolkitExpress57`

> *WSAD_installdir*
>> This is the installation directory for WebSphere Studio Application Developer.
>>
>> The default installation directory for WebSphere Studio Application Developer is `C:\Program Files\IBM\WebSphere Studio\Application Developer\v5.1.2`.
>>
>> **Important:** The default installation path is too long for configuration with the WebSphere Commerce toolkit. When installing WebSphere Studio Application Developer, specify a much shorter direcotry such as `C:\WSAD512`.

Knowledge requirements

This book should be read by developers or system administrators who are installing WebSphere Commerce Developer to develop store-front assets and back-office business logic to run with WebSphere Commerce.

Developers or system administrators who are installing and configuring WebSphere Commerce Developer should have knowledge in the following areas:
- Knowledge of one of the following operating systems:
  - Microsoft® Windows® 2000 Professional Edition
  - Microsoft Windows 2000 Server Edition
  - Microsoft Windows 2000 Advanced Server Edition
  - Microsoft Windows XP Professional
- ▶ Business ▶ Professional IBM DB2® Universal Database or Oracle database
- ▶ Express IBM DB2 Universal Database
- Basic SQL commands

This knowledge should include how to complete administration and configuration tasks for the operating system and database server.

Developers who are developing store-front assets or back-office business logic with WebSphere Commerce Developer should have knowledge in the following areas:
- IBM WebSphere Commerce
- IBM WebSphere Studio Application Developer
- ▶ Business ▶ Professional IBM DB2 Universal Database or Oracle database
- ▶ Express IBM DB2 Universal Database
- Java™ programming language
- Enterprise JavaBeans™ component architecture
- JavaServer Pages technology
- HTML
- XML

Contents

Part 1. Welcome to WebSphere Commerce Developer

This book describes how to install and configure WebSphere Commerce Developer (formerly WebSphere Commerce Studio). It is intended for developers or system administrators who are using the WebSphere Commerce Developer to develop stores and WebSphere Commerce application code.

> Business   If you are using WebSphere Commerce Developer Business Edition to create customized Java code, it can only be deployed to a WebSphere Commerce Business Edition application.

> Professional   If you are using WebSphere Commerce Developer Professional Edition to create customized Java code, it can only be deployed to a WebSphere Commerce Professional Edition application.

> Express   If you are using WebSphere Commerce - Express Developer Edition to create customized Java code, it can only be deployed to a WebSphere Commerce - Express application.

For instructions on the installation and configuration of WebSphere Commerce, refer to *WebSphere Commerce Installation Guide for Windows*.

WebSphere Commerce Developer should be installed on a separate machine from a WebSphere Commerce production or staging environment.

Products included with WebSphere Commerce Developer

The following products and components are packaged with WebSphere Commerce Developer:

- WebSphere Studio Application Developer, Version 5.1.2
- WebSphere Commerce Version 5.7 toolkit
- WebSphere Commerce, Version 5.7

  WebSphere Commerce for Windows is included with WebSphere Commerce Developer for testing purposes. If you want to put your site into production using WebSphere Commerce, you must purchase a licensed copy of WebSphere Commerce.

  For a list of products and components provided with WebSphere Commerce, refer to *WebSphere Commerce Installation Guide*.

Part 2. Planning your WebSphere Commerce Developer installation

This section contains information on planning your installation of WebSphere Commerce Developer, including the prerequisites for WebSphere Commerce Developer.

Migrating previous versions of WebSphere Commerce Developer

Migration to WebSphere Commerce Developer, Version 5.7 from the following versions of WebSphere Commerce Developer is supported:

- WebSphere Commerce Developer Version 5.6
- WebSphere Commerce Studio Version 5.5
- WebSphere Commerce Studio Version 5.4

Migration from other versions of WebSphere Commerce Developer is not supported.

For information on how to migrate to WebSphere Commerce Developer, Version 5.7 from previous versions of WebSphere Commerce, refer to the *WebSphere Commerce Developer Migration Guide*.

The Migration Guides are available from the WebSphere Commerce technical library:

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

Coexistence with previous versions of WebSphere Commerce Developer

WebSphere Commerce Developer, Version 5.7 can coexist on the same machine with the following previous versions of WebSphere Commerce Developer:

- WebSphere Commerce Developer Version 5.6
- WebSphere Commerce Studio Version 5.5
- WebSphere Commerce Studio Version 5.4

Coexistence of other versions of WebSphere Commerce Developer is not supported.

Coexistence with other editions of WebSphere Commerce Developer is not supported. Different versions of the same edition of WebSphere Commerce Developer can coexist but not different editions. For example, coexistence of WebSphere Commerce - Express Developer Version 5.6 and WebSphere Commerce Developer Business Edition Version 5.7 is not supported, while coexistence of WebSphere Commerce - Express Developer Edition Version 5.6 and WebSphere Commerce - Express Developer Edition Version 5.7 is supported.

When installing WebSphere Commerce Developer, Version 5.7 in a coexistence environment, no additional steps are required to prepare for or complete an installation of WebSphere Commerce. Follow the instructions for installing WebSphere Commerce Developer, Version 5.7 in this book.

WebSphere Studio Application Developer considerations for coexistence

If you plan to install WebSphere Commerce Developer, Version 5.7 in a coexistence environment, keep in mind the following information about WebSphere Studio Application Developer coexistence:

- If you have WebSphere Studio Application Developer, Version 5.0 installed, WebSphere Studio Application Developer, Version 5.1.2 can coexist with it.
- If you have WebSphere Studio Application Developer, Version 5.1 installed, you must upgrade WebSphere Studio Application Developer to Version 5.1.2.

About WebSphere Commerce Developer

WebSphere Commerce Developer is the combination of WebSphere Studio Application Developer and the WebSphere Commerce toolkit. The WebSphere Commerce toolkit provides a test environment, a workspace, and published starter stores in WebSphere Studio Application Developer. The test environment and workspace are customized for WebSphere Commerce development.

The initial, lightweight, WebSphere Commerce test environment provides reduced memory requirements and application start up time. A full WebSphere Commerce test environment is also available, providing support for more advanced development tasks, and additional configurations.

WebSphere Commerce Payments is preconfigured into the test environment to work with the IBM Cloudscape database. It is not exposed as a separate server but will start silently with the test environment. As an option, the WebSphere Commerce test environments can be configured to work with a remote WebSphere Commerce Payments server.

If you are developing assets for more than one target, you may need to multiple WebSphere Commerce workspaces. To obtain multiple WebSphere Commerce workspaces, install the WebSphere Commerce toolkit multiple times.

Test environments in WebSphere Commerce Developer

There are two test environments available in WebSphere Commerce Developer:
- "Lightweight WebSphere Commerce test environment"
- "Full WebSphere Commerce test environment" on page 12

Lightweight WebSphere Commerce test environment

The initial installation of WebSphere Commerce Developer provides a fully functioning WebSphere Commerce development environment that includes a lightweight WebSphere Commerce test environment that initially uses IBM Cloudscape as the WebSphere Commerce database. You can also switch the development database to use DB2 Universal Database or Oracle9i Database. The lightweight test environment always uses the development database.

For more information on the databases supported by the lightweight test environment, refer to "Databases supported by the test environments" on page 12.

You should use the lightweight WebSphere Commerce test environment if any of the following statements apply to your development needs:
- You have less than 1 Gigabyte of memory on your system.
- You are working on a simple implementation of a WebSphere Commerce application.
- You are developing JSP templates, commands or data beans for your WebSphere Commerce application.
- You are developing enterprise beans that do not require you to write database specific SQL statements.

Full WebSphere Commerce test environment

After installing WebSphere Commerce Developer, you can switch the development database from Cloudscape to DB2 Universal Database or Oracle9i Database. Whenever you use DB2 Universal Database or Oracle9i Database as the development database, the full test environment is available in the WebSphere Commerce development environment.

For more information on the databases supported by the full test environment, refer to "Databases supported by the test environments."

You should use the full WebSphere Commerce test environment if any of the following statements apply to your development needs:

- You are developing enterprise beans that require you to write database specific SQL.
- You are making significant changes to the database schema
- Your application requires additional data sources beyond those used by WebSphere Commerce.
- You are developing against the dynamic cache APIs.
- You are developing code that requires WebSphere Application Server extensions to the servlet container.
- You are developing stateful session beans.
- You are working on performance issues.

Databases supported by the test environments

When you switch the development database to either DB2 Universal Database or Oracle9i Database, both the lightweight test environment and the full test environment will use that database.

The WebSphere Commerce test environments can use the following databases, depending on the edition of WebSphere Commerce Developer you are using:

Edition	Lightweight Test Environment	Full Test Environment
▶ Business	• IBM Cloudscape • IBM DB2 Universal Database Enterprise Server Edition Version 8.1.5 • Oracle9i Database Release 2	• IBM DB2 Universal Database Enterprise Server Edition Version 8.1.5 • Oracle9i Database Release 2
▶Professional	• IBM Cloudscape • IBM DB2 Universal Database Enterprise Server Edition Version 8.1.5 • Oracle9i Database Release 2	• IBM DB2 Universal Database Enterprise Server Edition Version 8.1.5 • Oracle9i Database Release 2
▶ Express	• IBM Cloudscape • IBM DB2 Universal Database Enterprise Server Edition Version 8.1.5 • IBM DB2 Universal Database Express Edition Version 8.1.5	• IBM DB2 Universal Database Enterprise Server Edition Version 8.1.5 • IBM DB2 Universal Database Express Edition Version 8.1.5

The supported databases have only been tested running on Microsoft Windows for use with WebSphere Commerce Developer. While it may be possible to use

the supported databases running on operating systems other than Microsoft Windows, such configurations have not been tested and are not supported by IBM.

Projects provided by WebSphere Commerce Developer

The WebSphere Commerce development environment provides the following WebSphere Studio Application Developer projects:

CommerceAccelerator
> The Web module for the WebSphere Commerce Accelerator. The WebSphere Commerce Accelerator tools can be customized by creating and modifying assets in this web module.

OrganizationAdministration
> The Web module for the WebSphere Commerce Organization Administration Console. The Organization Administration Console can be customized by creating and modifying assets in this web module.

SiteAdministration
> The Web module for the WebSphere Commerce Administration Console. The Administration Console can be customized by creating and modifying assets in this web module.

Stores The Web module for WebSphere Commerce stores. Stores can be customized by creating and modifying assets in this web module.

Servers
> This server project contains the server configuration that is shared by the lightweight and full test environments.

WebSphereCommerceServerExtensionsData
> This EJB module is initially empty and is used to create custom enterprise beans.

WebSphereCommerceServerExtensionsLogic
> This Java project is initially empty and is used to create new Java classes. Classes created in this project will be visible to both the lightweight and full test environments.

If you are working on JSP files or web content, make your changes in the appropriate web project. You can add new enterprise beans to the WebSphereCommerceServerExtensionsData project.

These projects cannot be added manually to an existing workspace you may have. The projects are only provided in the workspace that is created when installing WebSphere Commerce toolkit

Starter stores in WebSphere Commerce Developer

You can publish any of the starter stores in WebSphere Commerce Developer. However, if you use Cloudscape and the lightweight WebSphere Commerce test environment, all of the starter stores provided with your edition of WebSphere Commerce Developer are prepublished. For more information on the starter stores available when using Cloudscape and the lightweight WebSphere Commerce test environment, refer to "Starter stores provided when using Cloudscape" on page 14.

If you switch the development database from Cloudscape to DB2 Universal Database or Oracle9i Database, no starter stores are initially available. You must

publish the starter stores using the WebSphere Commerce Administration Console following the procedures for publishing starter stores outlined in the WebSphere Commerce Information Center.

Starter stores provided when using Cloudscape

All WebSphere Commerce starter stores are published and available in the lightweight WebSphere Commerce test environment using Cloudscape after installing WebSphere Commerce Developer.

The following starter stores are available when using Cloudscape as the development database:

WebSphere Commerce Developer edition	Starter stores provided
▶ Business	• Consumer Direct an example of an online consumer direct store. • Advanced B2B Direct, an example of an advanced online B2B direct store. • Commerce Hosting Hub, an example of an online hosting business. • Commerce Plaza, an example of an online value chain, demand chain. • Commerce Supplier Hub, an example of an online value chain, supply chain.
▶ Professional	• Consumer Direct, an example of an online consumer direct store. • B2B Direct, an example of an online B2B direct store.
▶ Express	• Consumer Direct, an example of an online consumer direct store. • B2B Direct, an example of an online B2B direct store.

For more information on the WebSphere Commerce starter stores, refer to the WebSphere Commerce Information Center.

If you decide that you do not want all of the starter stores in your Cloudscape-based development environment you can reset the WebSphere Commerce database to its bootstrap configuration and then use the WebSphere Commerce Administration Console to publish only those starter stores that interest you.

When you reset the Cloudscape development database, store assets are not removed from the WebSphere Commerce development environment workspace. In order to keep the assets in the workspace synchronized with the database following a database reset, you can use the resetstores.bat utility to remove the prepublished stores from the workspace.

Information on resetting the database and workspace is provided in the WebSphere Commerce Information Center.

Pre-installation requirements

Before installing WebSphere Commerce Developer, ensure that your machine meets the following hardware and software prerequisites.

Prerequisite hardware

Ensure that the machine on which you want install WebSphere Commerce Developer meets the following requirements before installing WebSphere Commerce Developer:

Minimum hardware	Recommended hardware for using the lightweight test environment	Recommended hardware for using the full test environment
Intel® Pentium® II processor	Intel Pentium III 500 MHz processor or higher	Intel Pentium III 500 MHz processor or higher
512 MB RAM	768 MB RAM	1 GB RAM
4.0 GB hard drive space broken down as follows: **WebSphere Studio Application Developer** 2.1 GB **WebSphere Commerce toolkit** 1.9 GB	4.0 GB hard drive space broken down as follows: **WebSphere Studio Application Developer** 2.1 GB **WebSphere Commerce toolkit** 1.9 GB	4.0 GB hard drive space broken down as follows: **WebSphere Studio Application Developer** 2.1 GB **WebSphere Commerce toolkit** 1.9 GB
800 x 600 display resolution	1024 x 768 display resolution	1024 x 768 display resolution
CD-ROM drive	CD-ROM drive	CD-ROM drive

Prerequisite software

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

Operating system requirements
>   One of the following operating systems:
>   - Microsoft Windows 2000 Professional Edition with Service Pack 3 (or higher) applied
>   - Microsoft Windows 2000 Server Edition with Service Pack 3 (or higher) applied
>   - Microsoft Windows 2000 Advanced Server Edition with Service Pack 3 (or higher) applied
>   - Microsoft Windows XP Professional
>
>   Microsoft Windows Server 2003 is not supported by WebSphere Commerce Developer.

Web browser requirements
>   In order to use the WebSphere Commerce tools, you must have Microsoft Internet Explorer 6.0 Service Pack 1 or higher with the latest critical security updates installed.

Prior versions of Internet Explorer do not support the full function of the WebSphere Commerce tools.

Network configuration requirements

In addition to the hardware and software requirements , ensure that the network configuration of the system meets the following requirements:

- The system must have a resolvable domain name.

  The host name combined with the domain name is the fully qualified host name. For example, if the host name is *system1* and the domain is *ibm.com*, the fully qualified host name is *system1.ibm.com*.

  Issuing the following command from a command prompt session should return the IP address of the system:

  ```
  nslookup 'fully_qualified_host_name'
  ```

  The desired result is a reply with the correct IP address of the system.

- The IP address on the system must resolve to a host name (including a domain). To determine if the IP address is mapped to a fully qualified host name, start a command prompt session and issue the following command:

  ```
  nslookup 'IP_address'
  ```

  The desired result is a reply with the correct fully qualified host name of the system.

- Ensure that the system can be reached from other computers in the network by pinging the fully-qualified host name of the machine on which you are installing WebSphere Commerce Developer.

Part 3. Installing WebSphere Commerce Developer

Installing WebSphere Commerce Developer is a four-step process:

Step 1. Install WebSphere Studio Application Developer, Version 5.1.2

For instructions, refer to *IBM WebSphere Studio Application Developer for Windows and Linux® Installation Guide* available on the WebSphere Studio Application Developer CDs as the file `install.pdf`.

> **Important installation instructions**
>
> When installing WebSphere Studio Application Developer, Version 5.1.2 ensure that you do the following:
>
> - Ensure that you are logged on as a user with Administrator privileges.
> - Do not accept the default installation path for WebSphere Studio Application Developer, Version 5.1.2. Specify a short directory name such as `C:\WSAD512`.
>
>   The default installation path is too long for configuration with the WebSphere Commerce toolkit.
>
>   Also, avoid using periods (".") , spaces, or dollar signs ("$") in the directory names.
> - When prompted to select the features to install, ensure that you select **Integrated Test Environments > WebSphere Application Server 5.1**.

Step 2. Apply WebSphere Studio Application Developer fixes.

For instructions, refer to "Applying fixes to WebSphere Studio Application Developer" on page 19.

Step 3. If you plan to use the full test environment, you must apply WebSphere Application Server fixes to the WebSphere Application Server 5.1 Test Environment in WebSphere Studio Application Developer.

For instruction, refer to "Applying fixes to the WebSphere Application Server 5.1 Test Environment" on page 21.

Step 4. Install the WebSphere Commerce toolkit.

For instructions, refer to "Installing the WebSphere Commerce toolkit" on page 23.

Applying fixes to WebSphere Studio Application Developer

Apply WebSphere Studio Application Developer fixes as follows:

1. Open WebSphere Commerce Developer by selecting **Start > Programs > IBM WebSphere Commerce Developer Business Edition 5.7 > WebSphere Commerce development environment**.
2. Select **Help > Software Updates > New updates**.
3. Click **Select All** and click **Next**.
4. Accept the license agreement and click **Finish**.
5. Follow the prompts to install all of the updates.

Applying fixes to the WebSphere Application Server 5.1 Test Environment

Prerequisites

- The machine on which you are installing meets all prerequisites outlined in "Pre-installation requirements" on page 15.
- You have installed WebSphere Studio Application Developer, Version 5.1.2 with WebSphere Application Server 5.1 Test Environment on the machine.

  For instructions, refer to *IBM WebSphere Studio Application Developer for Windows and Linux Installation Guide* available on the WebSphere Studio Application Developer CDs.
- You have stopped any applications running on your machine.
- You are logged on as a user with Administrator privileges.

Procedure

To apply WebSphere Application Server fixes to the WebSphere Application Server 5.1 Test Environment in WebSphere Studio Application Developer, do the following:

1. Insert the WebSphere Application Server Fixes CD from your WebSphere Commerce package provided with WebSphere Commerce Developer into the CD-ROM drive of the machine where you have WebSphere Studio Application Developer installed.
2. Prepare the update installation wizard as follows:
   a. From the WebSphere Application Server Fixes CD, copy the `updateInstaller` directory to a temporary location on the hard drive.
   b. Start a command prompt session.
   c. Do the following in the command prompt session:
      1) Change directories to the `updateInstaller` directory on the hard drive.
      2) Issue the following command:

         `WSAD_installdir\runtimes\base_v51\bin\setupCmdLine`
      3) Start the update installation wizard by issuing the following command:

         `updateWizard`

      You can close the command prompt session at this point.
   d. When prompted to select the product to update, select **Specify product information** and enter the following path in the **Installation directory** field:

      `WSAD_installdir\runtimes\base_v51`

      Click **Next**.
   e. Leave the update installation wizard open for the next step.
3. Apply WebSphere Application Server Version 5.1 Fix Pack 1 to your WebSphere Studio Application Developer installation as follows:

   The update installation wizard should still be open from the previous step.
   a. Select **Install fix packs** and click **Next**.
   b. In the **Fix pack directory** field, enter the following path:

      `CD-ROM drive:\BASE\fixpack`

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Click **Next**.

   c. Ensure that **was51_fp1_win** is selected and click **Next**.

   d. Deselect **Embedded Messaging** and click Next.

   e. Continue through the update installation wizard until the installation starts.

   f. When the installation has completed, click **Run Wizard Again**.

     This will leave the update installation wizard open to apply the required cumulative fix in the next step.

4. Apply WebSphere Application Server Version 5.1.1 Cumulative Fix 3 to your WebSphere Studio Application Developer installation as follows:

   The update installation wizard should still be open from the previous step.

   a. Select **Install fix packs** and click **Next**.

   b. In the **Fix pack directory** field, enter the following path:

```
CD-ROM drive:\BASE\fixpack
```

     Click **Next**.

   c. Ensure that **was511_cf3_win** is selected and click **Next**.

   d. Continue through the update installation wizard until the installation starts.

   e. When the installation has completed, click **Run Wizard Again**.

     This will leave the update installation wizard open to apply the require interim fixes in the next step.

5. Apply the WebSphere Application Server interim fixes to your WebSphere Studio Application Developer installation as follows:

   The update installation wizard should still be open from the previous step.

   a. Select **Install fixes** and click **Next**.

   b. In the **Fix directory** field, enter the following path:

```
CD-ROM drive:\WCDE_fixes
```

     Click **Next**.

   c. From the list of available fixes, select **JDKiFix_win** and click **Next**.

   d. Continue through the update installation wizard until the installation starts.

   e. When the installation has completed, click **Run Wizard Again**.

   f. Select **Install fixes** and click **Next**.

   g. In the **Fix directory** field, enter the following path:

```
CD-ROM drive:\BASE\fixes
```

     Click **Next**.

   h. From the list of available fixes, select **PQ99045** and click **Next**.

   i. Continue through the update installation wizard until the installation starts.

6. When the update installation wizard completes, click **Finish**.

Installing the WebSphere Commerce toolkit

Prerequisites:
- The machine on which you are installing meets all prerequisites outlined in "Pre-installation requirements" on page 15.
- You have installed WebSphere Studio Application Developer, Version 5.1.2 with the WebSphere Application Server 5.1 Test Environment on the machine.

  For instructions, refer to *IBM WebSphere Studio Application Developer for Windows and Linux Installation Guide* available on the WebSphere Studio Application Developer CDs.
- You have stopped any applications running on your machine.
- You are logged on as a user with Administrator privileges.

Procedure:

To install the WebSphere Commerce toolkit, do the following:

1. Insert WebSphere Commerce Developer CD in the CD-ROM of the WebSphere Studio Application Developer machine.

   The WebSphere Commerce toolkit installation wizard should start automatically.

   If the WebSphere Commerce toolkit installation does not start automatically, run `setup.exe` on the root of the WebSphere Commerce Developer CD.
2. Follow the instructions provided in the wizard.
3. Ensure that the install was successful by doing the following:
   - Examine the contents of *WCDE_installdir*`\logs\setup.log`. If `setup.log` is empty or has errors, try running *WCDE_installdir*`\bin\setup.bat` from the command line.
   - Check that the install was able to properly detect WebSphere Studio Application Developer on your system by ensuring that *WCDE_installdir*`\bin\setenv.bat` sets the WSAD_HOME environment variable to *WSAD_installdir* correctly.

You now have a fully functioning WebSphere Commerce development environment installed. This WebSphere Commerce development environment provides a lightweight WebSphere Commerce test environment that uses IBM Cloudscape as the WebSphere Commerce database.

Next step

After installing all of the components of WebSphere Commerce Developer, you can continue by doing any of the optional tasks provided in Part 4, "Configuring WebSphere Commerce Developer," on page 27.

Part 4. Configuring WebSphere Commerce Developer

The chapters in this section describe how to perform any of the optional configurations for WebSphere Commerce Developer beyond the initial configuration when you install WebSphere Commerce Developer. Topics covered in this section include:

Adding the full WebSphere Commerce test environment to the WebSphere Commerce development environment

The initial installation of WebSphere Commerce Developer provides a lightweight WebSphere Commerce test environment using IBM Cloudscape as the WebSphere Commerce database. A full WebSphere Commerce test environment using DB2 Universal Database or Oracle9i Database can be added after completing the initial installation. This full WebSphere Commerce test environment is similar to the test environment provided in WebSphere Commerce Studio Version 5.5. In some documentation, this full WebSphere Commerce test environment may be referred to as the "classic" test environment.

You should use the full WebSphere Commerce test environment if any of the following statements apply to your development needs:

- You are developing enterprise beans that require you to write database specific SQL.
- You are making significant changes to the database schema
- Your application requires additional data sources beyond those used by WebSphere Commerce.
- You are developing against the dynamic cache APIs.
- You are developing code that requires WebSphere Application Server extensions to the servlet container.
- You are developing code to integrate a back-end system via WebSphere MQ.
- You are developing stateful session beans.
- You are working on performance issues.

Prerequisites:
- You have installed WebSphere Studio Application Developer, Version 5.1.2.
- You applied the required fixes to WebSphere Studio Application Developer, Version 5.1.2 as documented in "Applying fixes to the WebSphere Application Server 5.1 Test Environment" on page 21.
- You have installed the WebSphere Commerce toolkit.
- You have a functioning lightweight test environment.

Procedure:

To add the full WebSphere Commerce test environment to the WebSphere Commerce development environment, do one of the following:

- ▶ Business ▶ Professional ▶ Express Configure the development environment to use DB2 Universal Database.

  For instructions, refer to "Configuring the development environment to use DB2 Universal Database" on page 31.

- ▶ Business ▶ Professional Configure the development environment to use Oracle9i Database.

  For instructions, refer to "Configuring the development environment to use Oracle9i Database" on page 34.

Changing the development database

The initial configuration of the WebSphere Commerce development environment uses Cloudscape as the development database. However, you can switch to using DB2 Universal Database or Oracle9i Database as the development database.

Consider the following guidelines when switching between database types:

- If you are developing session beans or custom entity bean finders that have database-specific SQL statements, you should consider moving to using DB2 Universal Database or Oracle9i Database, as appropriate. The alternative is to code your session beans and custom finders to examine the `useCloudscape`, `useDB2`, `useDB2_390`, and `useOracle` methods of the BaseJDBCHelper class and then generate the database specific SQL statements.
- The effort of maintaining code that will work with Cloudscape and your target database, must be weighed against the additional setup and configuration effort required in setting up development environments that works directly against the target database.

Configuring the development environment to use DB2 Universal Database

The initial installation of WebSphere Commerce Developer provides a WebSphere Commerce development environment that uses IBM Cloudscape as the WebSphere Commerce database.

You should reconfigure the development environment to use DB2 Universal Database if any of the following statements apply to your development needs:

- You are developing enterprise beans that require you to write database specific SQL.
- You are making significant changes to the database schema

You may use either local or remote DB2 Universal Database.

Prerequisites:

- You have installed WebSphere Studio Application Developer, Version 5.1.2 with the WebSphere Application Server 5.1 Test Environment.
- If you plan to use the full WebSphere Commerce test environment, you have applied the required fixes to WebSphere Studio Application Developer as documented in "Applying fixes to the WebSphere Application Server 5.1 Test Environment" on page 21.
- You have installed the WebSphere Commerce toolkit and have a functioning lightweight test environment.
- ▶ Business ▶ Professional You have installed IBM DB2 Universal Database Enterprise Server Edition Version 8.1.5 on a local or remote Windows machine.

  Ensure the Application Development Tools component is installed.

- ▶ Express You have installed IBM DB2 Universal Database Enterprise Server Edition Version 8.1.5 or IBM DB2 Universal Database Express Edition Version 8.1.5 on a local or remote Windows machine.

  Ensure the Application Development Tools component is installed.

- If you are using a remote DB2 Universal Database database server, you have installed the DB2 Universal Database Administration Client on the WebSphere Commerce development environment machine.
- You have the following information gathered about your database server:

Local DB2 Universal Database	Remote DB2 Universal Database

• The root directory of DB2 Universal Database
 	
  For example, `C:\SQLLIB`
• The database administrator ID
• The database administrator password
• The database user ID (schema owner ID)
• The database user password
	• The root directory of the DB2 Universal Database client
	
	  For example, `C:\SQLLIB`
	• The database administrator ID
	• The database administrator password
	• The database user ID (schema owner ID)
	• The database user password
	• The fully qualified host name of the database server
	• The port number on the database server used for remote connections
	• The node name of the remote database

Procedure:

To configure the development environment to use DB2 Universal Database, do the following:

1. Ensure that WebSphere Studio Application Developer is not running.

   Note: If you forget to shut down WebSphere Studio Application Developer, the server configuration may disappear. Refresh the Servers project and it should reappear.

2. If you have an existing, remote WebSphere Commerce, Version 5.7 development database that you want to use, do the following on your WebSphere Commerce Developer machine the first time you switch to the existing database:
   a. Catalog the remote database node.
   b. Catalog the remote database.

   For information on how to catalog a remote database node and how to catalog a remote database, refer to the DB2 Information Center at the following URL:
   `http://publib.boulder.ibm.com/infocenter/db2help/index.jsp`

   Once a remote database node and a remote database are cataloged on machine, they will not have to be cataloged again. You can switch to the cataloged remote database without repeating this step.

3. Start a command prompt session.
4. Switch directories to the *WCDE_installdir*\bin directory.
5. Issue the following command:
   ```
   setdbtype db2 DB2_HOME dbName dbAdminID dbAdminPassword dbUserID
    dbUserPassword [dbHost dbServerPort dbNode]
   ```

   where the command parameters are defined as follows:

DB2_HOME
> The root directory of DB2 Universal Database or the DB2 Universal Database client, depending on if you are using a local or remote database.
>
> For example, `C:\SQLLIB`.

dbName
> The name of the database you want to use with WebSphere Commerce Developer.
>
> If this is the first time you are switching database, this is the name you want to give the database that will be created in the next step.

dbAdminID
> The database administrator ID.

dbAdminPassword
> The database administrator password.

dbUserID
> The database user ID (schema owner).

dbUserPassword
> The database user password.

dbHost **Remote database only**: The fully qualified host name of the database server.

dbServerPort
> **Remote database only**: The port number on the database server used for remote connections.

dbNode
> **Remote database only**: The node name of the remote database.

6. If this is the first time you are configuring the development environment to use DB2 Universal Database and you are not using an existing, remote WebSphere Commerce, Version 5.7 development database, issue the following command from a DB2 command window

```
createdb.db2 dbName userId password schemaowner
  [servername serverport nodename]
```

where the command parameters are defined as follows:

dbname
> The name of the database to create and populate for WebSphere Commerce Developer.
>
> This name must match the name you used with the `setdbtype` command.

userID The database user ID.

password
> The database user password.

schemaowner
> The user ID that is the schema owner for the development database. This is usually the same as the database user ID

servername
> **Remote database only**: The fully qualified host name of the database server.

> *serverport*
>> **Remote database only**: The port number on the database server used for remote connections.
>
> *nodename*
>> **Remote database only**: The node name of the remote database.
>
> This utility creates and populates the DB2 Universal Database development database.

The WebSphere Commerce development environment is now configured to use DB2 Universal Database as its database. Also, the full test environment has been added to the WebSphere Commerce development environment. Both the lightweight WebSphere Commerce test environment and the full WebSphere Commerce test environment use the DB2 Universal Database development database.

All data in the Cloudscape database remains unchanged until you return to using Cloudscape as the development database.

The new DB2 Universal Database development database does not come with all starter stores published. You must publish any starter stores you want to work using the WebSphere Commerce Administration Console. For more information on publishing starter stores, refer to the WebSphere Commerce Information Center.

Configuring the development environment to use Oracle9i Database

> ┌─ **Edition notice** ───┐
> Oracle9i Database is supported by WebSphere Commerce Developer Business Edition and WebSphere Commerce Developer Professional Edition.
>
> Oracle9i Database is not supported by WebSphere Commerce - Express Developer Edition.
> └──┘

The initial installation of WebSphere Commerce Developer provides a WebSphere Commerce development environment that uses IBM Cloudscape as the WebSphere Commerce database.

You should reconfigure the development environment to use Oracle9i Database if any of the following statements apply to your development needs:
- You are developing enterprise beans that require you to write database specific SQL.
- You are making significant changes to the database schema

Prerequisites:
- You have installed WebSphere Studio Application Developer, Version 5.1.2with the WebSphere Application Server 5.1 Test Environment.
- If you plan to use the full WebSphere Commerce test environment, you have applied the required fixes to WebSphere Studio Application Developer as documented in "Applying fixes to the WebSphere Application Server 5.1 Test Environment" on page 21.
- You have installed the WebSphere Commerce toolkit and have a functioning lightweight test environment.

- You have installed Oracle9i Database Release 2 on a local or remote Windows machine. The following table lists the components you should install for a local and a remote Windows machine:

Local Oracle9i Database	Remote Oracle9i Database

- Oracle9i Database
- Oracle Net Services
- Oracle Net Protocol Support
- SQL*Plus
- Oracle JDBC/Thin Interfaces
- Oracle JDBC/OCI Interfaces
	Database server machine
	  - Oracle9i Database
	  - Oracle Net Services
	  - Oracle JDBC/Thin Interfaces
	  - Oracle JDBC/OCI Interfaces
	
	WebSphere Commerce Developer machine
	  - Oracle9i Enterprise Client
	  - SQL*Plus
	  - Oracle JDBC/Thin Interfaces
	  - Oracle JDBC/OCI Interfaces
	  - Oracle Network Utilities
	  - Oracle Database Utilities
	
	Ensure that the Oracle client and server are configured to communicate correctly according to instructions found in the Oracle9i Database Database documentation.

  For instructions on installing these components, refer to your Oracle9i Database documentation.
- You have created an Oracle user ID and an empty database. Ensure that the database uses the UTF-8 code set and that the Oracle user ID has access to the new database.

  For instructions on creating a database, refer to your Oracle9i Database documentation.
- You have gathered the following information about Oracle9i Database:

Local Oracle9i Database	Remote Oracle9i Database

- The root directory of Oracle9i Database
  For example, `C:\ORACLE\ORA92`
- The name of the database
- The database administrator ID
- The database administrator password
- The database user ID
- The database user password
	- The root directory of Oracle9i Database client
	  For example, `C:\ORACLE\ORA92`
	- The name of the remote database
	- The name of the local net service for the remote database
	- The database administrator ID
	- The database administrator password
	- The database user ID
	- The database user password
	- The fully qualified host name of the database server
	- The port number on the database server used for remote connections

Procedure:

To configure the development environment to use Oracle9i Database, do the following:

1. Ensure that WebSphere Studio Application Developer is not running.
2. Start a command prompt session.
3. Switch directories to the *WCDE_installdir*\bin directory.
4. Issue the following command:

   ```
   setdbtype oracle ORACLE_HOME dbName dbAdminID dbAdminPassword dbUserID
    dbUserPassword [dbHost dbServerPort]
   ```

   where the command parameters are defined as follows:

   ORACLE_HOME
   : The root directory of Oracle9i Database or the database client, depending on if you have a local or a remote database.

     For example, `C:\ORACLE\ORA92`.

   dbName
   : The name of the database to use with WebSphere Commerce Developer.

     If you are using a remote database, this is the name of the database on the remote database server.

   dbAdminID
   : The database administrator ID.

   dbAdminPassword
   : The database administrator password.

   dbUserID
   : The database user ID.

   dbUserPassword
   : The database user password.

   dbHost **Remote database only**: The fully qualified host name of the database server.

   dbServerPort
   : **Remote database only**: The port number on the database server used for remote connections.

5. Issue the following command:

   ```
   createdb.oracle dbname userID password schemaowner
   ```

   where the command parameters are defined as follows:

   dbname
   : The name of the database to populate for WebSphere Commerce Developer.

     If you are using a local database, this name must match the name you used with the `setdbtype` command.

     If you are using a remote database, this is the name of the local net service created to map to the remote database service.

   userID The Oracle ID used to access the database.

   password
   : The Oracle user password.

schemaowner
>> The Oracle tablespace owner for the development database. This is usually the same as the Oracle user ID used to access the database.

This utility populates the Oracle9i Database development database.

The WebSphere Commerce development environment is now configured to use Oracle9i Database as its database. Also, the full WebSphere Commerce test environment has been added to the WebSphere Commerce development environment. Both the lightweight test environment and the full WebSphere Commerce test environment use the Oracle9i Database development database.

All data in the Cloudscape database remains unchanged until you return to using Cloudscape as the development database.

The new Oracle9i Database development database does not come with all starter stores published. You must publish any starter stores you want to work using the WebSphere Commerce Administration Console. For more information on publishing starter stores, refer to the WebSphere Commerce Information Center.

Configuring the development environment to use Cloudscape

If you are using DB2 Universal Database or Oracle9i Database you can return to using Cloudscape as the development database.

Prerequisites:
* The WebSphere Commerce development environment uses DB2 Universal Database or Oracle9i Database for the development database.

Procedure:

To configure the development environment to use Cloudscape, do the following:
1. Ensure that WebSphere Studio Application Developer is not running.
2. Start a command prompt session.
3. Switch directories to the *WCDE_installdir*\bin directory.
4. Issue the following command:

   setdbtype cloudscape

The WebSphere Commerce development environment is now configured to use IBM Cloudscape as its database. Also, the full test environment has been removed from the WebSphere Commerce development environment.

All data in the DB2 Universal Database or Oracle9i Database database remains unchanged until you return to using the DB2 Universal Database or Oracle9i Database database as the development database.

Configuring payment processing in WebSphere Commerce Developer

WebSphere Commerce Payments is preconfigured into the test environments. It is not exposed as a separate server but will start silently with the test environments. The test environments can also be configured to work with a remote payment server.

Only the OfflineCard cassette is enabled in the test environment. If you would like to use the 3-D Secure Merchant Plug-in with the VisaNet or Paymentech cassettes, the WebSphere Commerce development environment must be configured to use a remote WebSphere Commerce Payments server that has the VisaNet or Paymentech cassette configured.

Configuring the development environment to use WebSphere Commerce Payments on the development machine

WebSphere Commerce Payments is configured on the development machine when WebSphere Commerce Developer is installed. After installing WebSphere Commerce Developer, you must configure payment methods in WebSphere Commerce Payments. For more details, refer to "Configuring accepted payment methods in WebSphere Commerce Payments" on page 42.

WebSphere Commerce Payments starts silently with the test environment.

If you want to configure the development environment to use WebSphere Commerce Payments on a remote machine, follow the instructions in "Configuring the development environment to use WebSphere Commerce Payments on a remote machine."

If you have configured the development environment to use WebSphere Commerce Payments on a remote machine and you want to return to using WebSphere Commerce Payments on the development machine, follow the instructions in "Switching from remote WebSphere Commerce Payments to local WebSphere Commerce Payments" on page 44.

Configuring the development environment to use WebSphere Commerce Payments on a remote machine

Before you can configure your development environment to use a remote WebSphere Commerce Payments, you must install and configure WebSphere Commerce Payments on a machine separate from your development machine.

To configure the development environment to use WebSphere Commerce Payments on a remote machine, do the following:

Step 1. Install and configure WebSphere Commerce Payments on the remote machine. For more instructions, refer to "Installing and configuring WebSphere Commerce Payments" on page 40.

Step 2. Configure the WebSphere Commerce development environment to use a remote WebSphere Commerce Payments. For more details, refer to

"Configuring the WebSphere Commerce development environment to use remote WebSphere Commerce Payments" on page 41.

Step 3. Configure payment methods in WebSphere Commerce Payments. For more details, refer to "Configuring accepted payment methods in WebSphere Commerce Payments" on page 42.

If you have configured the development environment to use WebSphere Commerce Payments on a remote machine and you want to return to using WebSphere Commerce Payments on the development machine, follow the instructions in "Switching from remote WebSphere Commerce Payments to local WebSphere Commerce Payments" on page 44.

Installing and configuring WebSphere Commerce Payments

Prerequisites:

- The machine on which you are installing WebSphere Commerce Payments meets all prerequisites outlined in *WebSphere Commerce Installation Guide*.

Procedure:

To install and configure WebSphere Commerce Payments on a machine separate from your development machine, do the following:

1. Complete a custom installation of WebSphere Commerce on the remote machine. During the installation, select the following components when completing the custom installation:
   - WebSphere Commerce Payments, including WebSphere Application Server base product
   - IBM HTTP Server, including WebSphere Application Server plug-in

   Instructions for completing a custom installation are provided in *WebSphere Commerce Installation Guide*.

2. Create a WebSphere Commerce Payments instance by following the instructions in *WebSphere Commerce Installation Guide*.

   When completing the WebSphere Commerce Payments instance creation wizard, certain fields require specific values as follows:

   Site Admin ID
   > Enter `wcsadmin`.
   >
   > This is the Site Administrator ID in the WebSphere Commerce development environment test environments and must be the same in the WebSphere Commerce Payments.

   Commerce Webserver Hostname
   > Enter the fully qualified host name of the WebSphere Commerce Developer machine in this field on the WCSRealm panel of the Payments Instance Creation wizard.

   Also, ensure that you use specify a unique database name — if the database name already exists, instance creation will fail. The default name for the WebSphere Commerce Payments database is WPM.

3. Start IBM HTTP Server according to the IBM HTTP Server documentation.

4. Start WebSphere Commerce Payments by following the instructions in WebSphere Commerce Information Center.

5. Ensure that you can connect to WebSphere Commerce Payments from the WebSphere Commerce Developer machine by opening the following URL:
   `http://hostname:5432/webapp/PaymentManager`

or

```
https://hostname:5433/webapp/PaymentManager
```

where the variables are defined as follows:

hostname

> The fully qualified TCP/IP host name of the Web server associated with WebSphere Commerce Payments. In this case, it would be the same host name as the WebSphere Commerce Payments machine.

If WebSphere Commerce Payments is SSL-enabled, use the secure (https) URL. Otherwise, use the non-secure (http) URL.

If you see the IBM WebSphere Commerce Payments Logon page, your configuration of the remote WebSphere Commerce Payments machine was successful.

Configuring the WebSphere Commerce development environment to use remote WebSphere Commerce Payments

Prerequisites:

- The WebSphere Commerce development environment is running.
- All test environments are stopped.
- WebSphere Commerce Payments is installed on the remote Payments machine.
- A WebSphere Commerce Payments instance exists on the remote Payments machine.

Procedure:

To configure the WebSphere Commerce development environment to use a remote WebSphere Commerce Payments, do the following on the WebSphere Commerce Developer machine:

1. Stop any WebSphere Commerce test environments that may be running in WebSphere Studio Application Developer.
2. In the J2EE Hierarchy view in WebSphere Studio Application Developer, expand **Servers** and double-click one of the following:

   - **Full WebSphere Commerce Test Environment**

     This server is only available if you have added the full WebSphere Commerce test environment to the WebSphere Commerce development environment by following the instructions in "Adding the full WebSphere Commerce test environment to the WebSphere Commerce development environment" on page 29.

   - **Lightweight WebSphere Commerce Test Environment**

   The test environment view for the test environment you double-clicked displays.

3. In the test environment view, select the **Configuration** page.
4. On the Configuration page, expand **Payments** and fill in the fields as follows:

   Hostname

   > Enter the fully qualified host name of the WebSphere Commerce Payments machine. This field defaults to `localhost`. If you have installed WebSphere Commerce Payments on a remote machine, you must ensure that this field contains the fully qualified host name of the WebSphere Commerce Payments machine. If WebSphere Commerce

Payments and the Web server it uses are on separate machines then enter the fully qualified host name of the Web server machine.

Profile Path
Ensure the path is the following:

`../conf/xml/payment`

Use non-SSL Payments Client
Select this check box if you want WebSphere Commerce Developer to use the non-Secure Sockets Layer (SSL) WebSphere Commerce Payments client to communicate with the WebSphere Commerce Payments server. This allows the WebSphere Commerce Server in the WebSphere test environment to communicate with WebSphere Commerce Payments without using SSL.

Webserver Port
Enter the TCP port number of the Web server that WebSphere Commerce Payments uses. If you have enabled Use non-SSL WebSphere Commerce Payments client the default value for this field is 5432. If this check box has not been selected, the default value for this field is 5433 (the SSL port).

Use Socks Server
Enable this check box if WebSphere Commerce Developer must go through a socks server in order to reach WebSphere Commerce Payments.

Socks Hostname
Enter the fully-qualified host name of your socks server. This field is only available if the **Use Socks Server** check box is enabled.

Socks Port Number
Enter the port number that your socks server uses. This field is only available if the **Use Socks Server** check box is enabled.

5. Select **File > Save** to save your changes.

Configuring accepted payment methods in WebSphere Commerce Payments

Before enabling the WebSphere Commerce Payments for use with WebSphere Commerce in the WebSphere test environment you must configure the payment methods accepted by a store.

When you a publish a starter store, a number of sample payment methods are automatically configured and the instructions in this section can be skipped. However, you should complete these steps after publishing a starter store if you find the starter store does not contain payment methods you would like to test.

To configure WebSphere Commerce Payments, do the following:
 1. Start one of the WebSphere Commerce test environments in WebSphere Studio Application Developer.
 2. If you are using remote WebSphere Commerce Payments, start WebSphere Commerce Payments.

    For instructions on how to start WebSphere Commerce Payments, refer to the WebSphere Commerce Information Center.
 3. Open the WebSphere Commerce Payments console using one of the following URLs:

WebSphere Commerce Payments on the development machine
`https://hostname/webapp/PaymentManager/PaymentServerUI/Start`

where *hostname* is the fully qualified host name of the WebSphere Commerce Developer machine. If you are accessing WebSphere Commerce Payments console directly from the WebSphere Commerce Developer machine, you can use `localhost` as the host name.

Log on to WebSphere Commerce Payments using `wcsadmin` as both the ID and password.

WebSphere Commerce Payments on a remote machine using the non-SSL
port   Use the following URL if WebSphere Commerce Payments is not SSL-enabled:
`http://hostname:5432/webapp/PaymentManager`

where *hostname* is the fully qualified host name of the WebSphere Commerce Payments

Log on to WebSphere Commerce Payments using `wcsadmin` as both the ID and password.

WebSphere Commerce Payments using the SSL port
Use the following URL if WebSphere Commerce Payments is SSL-enabled:
`https://hostname:5433/webapp/PaymentManager`

where *hostname* is the fully qualified host name of the WebSphere Commerce Payments machine.

Log on to WebSphere Commerce Payments using `wcsadmin` as both the ID and password.

4. From the left panel, click **Merchant Settings**.
5. Click **Refresh** to see what merchant was added after you have published a starter store.
6. In the right window, click **Add a Merchant**.
7. Enter a Merchant Name for your starter store. The Merchant Number must be the same as the storeId for your starter store (e.g. 10001). Select the **OfflineCard** check box and click **Create Merchant**. A "Merchant created successfully" message should appear.

   Note: If a merchant already exists for your storeID, you cannot create another merchant for the same storeID.

8. In the left panel, click Merchant Settings again. In the right hand window, beside the name of your new merchant, the green cassette status icon (under the OfflineCard column) indicates that the OfflineCard cassette is enabled and running for that merchant. Click the green icon. You must now create an account for each currency supported by your store, by clicking **Accounts**.
9. Click **Add an Account**. Enter an Account Name and an Account Number. The account number must be unique within that store. Select the appropriate currency from the drop-down menu. Click **Create Account**.
10. In the Accounts window, click the name of your new account, then click **Brands**.
11. Click **Add a Brand**. Enter a Brand Name (e.g. VISA) and click **Create Brand**.

12. Repeat for all other Brands to be used with this account. Repeat the above three steps to add accounts for all other currencies to be supported by your store.

If you are using remote WebSphere Commerce Payments and you want to use any other WebSphere Commerce Payments cassettes with, refer to the documentation for the cassette for configuration instructions. Documentations for cassettes is available through the WebSphere Commerce library.

Switching from remote WebSphere Commerce Payments to local WebSphere Commerce Payments

Follow the instructions in this section if you have configured the development environment to use WebSphere Commerce Payments on a remote machine and you want to return to using WebSphere Commerce Payments on the development machine.

Prerequisites:
- The WebSphere Commerce development environment is running.
- All test environments are stopped.

Procedure:

To return to using WebSphere Commerce Payments on the WebSphere Commerce development environment machine, do the following:

1. Stop any WebSphere Commerce test environments that may be running in WebSphere Studio Application Developer.
2. In the J2EE Hierarchy view in WebSphere Studio Application Developer, expand **Servers** and double-click one of the following:
   - **Full WebSphere Commerce Test Environment**

     This server is only available if you have added the full WebSphere Commerce test environment to the WebSphere Commerce development environment by following the instructions in
   - **Lightweight WebSphere Commerce Test Environment**

   The test environment view for the test environment you double-clicked displays.
3. In the test environment view, select the **Configuration** page.
4. On the Configuration page, expand **Payments** and fill in the fields as follows:

   Hostname
   > Enter `localhost`.

   Profile Path
   > Ensure the path is the following:
   > `../conf/xml/payment`

   Use non-SSL Payments Client
   > Ensure this box is not selected.

   Webserver Port
   > Enter 443.

   Use Socks Server
   > Ensure this check box is not selected.

Socks Hostname

This field should be disabled because the **Use Socks Server** check box is not selected.

Socks Port Number

This field should be disabled because the **Use Socks Server** check box is not selected.

5. Select **File > Save** to save your changes.

Configuring additional WebSphere Commerce software for WebSphere Commerce Developer

WebSphere Commerce provides additional software packages that you may want to use in the WebSphere test environment. For more information on the additional software packages provided with WebSphere Commerce, refer to the*WebSphere Commerce Additional Software Guide* for the edition of WebSphere Commerce you have.

Use the information in this section, along with the*WebSphere Commerce Additional Software Guide* for the appropriate edition of WebSphere Commerce, to install and configure the additional software packages for use with WebSphere Commerce Developer.

In the following sections, refer to the **Edition notice** to see if the software discussed is supported by your edition of WebSphere Commerce Developer.

WebSphere Commerce analytic tools

WebSphere Commerce Analyzer

> **Edition notice**
> WebSphere Commerce Analyzer is not supported by WebSphere Commerce Developer Business Edition, WebSphere Commerce Developer Professional Edition, or WebSphere Commerce - Express Developer Edition.

Tivoli Web Site Analyzer

> **Edition notice**
> Tivoli® Web Site Analyzer is not supported by WebSphere Commerce Developer Business Edition, WebSphere Commerce Developer Professional Edition, or WebSphere Commerce - Express Developer Edition.

WebSphere Commerce business integration

The business integration software packages, WebSphere MQ is not provided with either WebSphere Commerce or WebSphere Commerce Developer. it must be purchased separately.

WebSphere MQ

> **Edition notice**
> WebSphere MQ is supported by WebSphere Commerce Developer Business Edition, WebSphere Commerce Developer Professional Edition, and WebSphere Commerce - Express Developer Edition.

Prerequisites:
- You have installed the WebSphere Commerce development environment.

- You have the full test environment added to the WebSphere Commerce development environment.

  For instructions on adding the full test environment to the WebSphere Commerce development environment, refer to "Adding the full WebSphere Commerce test environment to the WebSphere Commerce development environment" on page 29.

  You cannot use WebSphere MQ with the lightweight test environment.

Procedure:

To use WebSphere MQ (formerly MQSeries®) with WebSphere Commerce Developer, do the following:

1. Follow the instructions found in *WebSphere Commerce Additional Software Guide* with the following changes:
   - If plan to use Client mode connections to your messaging server (either WebSphere MQ server or the embedded messaging server), ensure that you apply the fixes listed for messaging components available at the following URL:

     ```
     https://www14.software.ibm.com/webapp/iwm/web/reg/pick.do?source=wsmqcsd
     ```

     Depending on the client you are using, obtain fixes as follows:

     Embedded messaging client
     Obtain and install the fixes found under **WebSphere embedded messaging interim fixes for WebSphere Application Server V5.1.1**.

     WebSphere MQ client
     Ensure that you are at CSD08 or later.

     You will need an IBM ID and password to access the fixes. If you do not have an IBM ID or password, click **My IBM registration** to obtain an ID and password.
   - Skip any steps for starting WebSphere Application Server. Starting WebSphere Application Server is not required when working in WebSphere Commerce Developer.
   - Skip any steps for starting the WebSphere Application Server node agent. Starting the WebSphere Application Server node agent is not required when working in WebSphere Commerce Developer.
   - Launch the administration console from within WebSphere Commerce Developer by following the instructions in "Starting the WebSphere Application Server Administrative Console in the WebSphere Commerce development environment" on page 65 instead of opening the WebSphere Application Server Administrative Console.
   - Scope changes to the WebSphere Commerce application server by selecting **Server** from list of available scopes.

     You cannot scope any changes to the WebSphere Commerce application server by entering the name of the WebSphere Commerce application server in the **Server** field as this field is unavailable when the WebSphere Application Server Administrative Console runs in the WebSphere test environment.
   - Do not perform the tasks outlined in "Determining the maximum number of ManagedConnections for the JCA-JMS connector".
   - Do *not* change the value in the **Max Connections** field of the Connection Pool page for the WebSphere MQ JMS Provider queue connection factory in the administration console. Accept the default value.

- When asked to launch the WebSphere Commerce Configuration Manager, go to the Configuration page of either test environment view in WebSphere Studio Application Developer and expand **Transports**. Complete the fields as described in the *WebSphere Commerce Additional Software Guide*.

  Instructions for accessing the Configuration page in WebSphere Studio Application Developer are provided in "Accessing the Configuration page for a test environment" on page 65.

Using WebSphere Studio Application Developer Embedded Messaging Server as an alternative to WebSphere MQ server

You can use the WebSphere Studio Application Developer Embedded Messaging Server as an alternative to using WebSphere MQ server with WebSphere Commerce development environment.

Prerequisites:

- You have installed WebSphere Studio Application Developer, Version 5.1.2 on the machine.

  For instructions, refer to *IBM WebSphere Studio Application Developer for Windows and Linux Installation Guide* available on the WebSphere Studio Application Developer CDs.

- You have the WebSphere Studio Application Developer embedded messaging server and client installed.

  This is installed from the WebSphere Studio Application Developer launch pad. It is not a component installed by the WebSphere Studio Application Developer, Version 5.1.2 installation wizard.

  For instructions, refer to *IBM WebSphere Studio Application Developer for Windows and Linux Installation Guide* available on the WebSphere Studio Application Developer CDs.

  Apply the embedded messaging interim fixes to your WebSphere Application Server test environment in WebSphere Studio Application Developer available at the following URL:

  `https://www14.software.ibm.com/webapp/iwm/web/reg/pick.do?source=wsmqcsd`

  Obtain and install the fixes found under **WebSphere embedded messaging interim fixes for WebSphere Application Server V5.1.1**.

  You will need an IBM ID and password to access the fixes. If you do not have an IBM ID or password, click **My IBM registration** to obtain an ID and password.

- You have the full test environment added to the WebSphere Commerce development environment.

  For instructions on adding the full test environment to the WebSphere Commerce development environment, refer to "Adding the full WebSphere Commerce test environment to the WebSphere Commerce development environment" on page 29.

  You cannot use the WebSphere Studio Application Developer Embedded Messaging Server with the lightweight test environment.

- The WebSphere Commerce development environment is running.

  To start the WebSphere Commerce development environment, do one of the following, depending on your edition of WebSphere Commerce Developer:

▶ Business	Select **Start > Programs > IBM WebSphere Commerce Developer Business Edition > WebSphere Commerce development environment**

▶ Professional	Select **Start > Programs > IBM WebSphere Commerce Developer Professional Edition > WebSphere Commerce development environment**
▶ Express	Select **Start > Programs > IBM WebSphere Commerce - Express Developer > WebSphere Commerce development environment**

Procedure:

To enable the Embedded Messaging Server in the WebSphere Commerce test environments, do the following:

1. In the J2EE Hierarchy view in WebSphere Studio Application Developer, expand **Servers** and double-click **Full WebSphere Commerce Test Environment**.
2. On the Server page of the test environment view, expand **JMS**.
3. Add the following queues:
    *   JMSSerialInboundQueue
    *   JMSParallelInboundQueue
    *   JMSErrorQueue
    *   JMSOutboundQueue
    *   JMSInboundQueue
4. Do not change the values of **Host** and **Port**.
5. In the **JMS Provider** section, select **Embedded Messaging**.
6. Launch the administration console from within WebSphere Commerce Developer by following the instructions in "Starting the WebSphere Application Server Administrative Console in the WebSphere Commerce development environment" on page 65.
7. Log in to the WebSphere Application Server Administrative Console.
8. In the navigation tree on the WebSphere Application Server Administrative Console, expand **Resources** and click **WebSphere JMS Provider**.
9. Scope your changes to the Full WebSphere Commerce Test Environment by selecting **Server** and clicking **Apply**.
10. Create a new connection factory by doing the following:
    a. In the Additional Properties table on the WebSphere JMS Provider page, click **WebSphere Queue Connection Factories**.
    b. On the WebSphere Queue Connection Factories page, click **New**.
    c. Complete the fields as follows:

Field	Value
Name	JMSQueueConnectionFactory
JNDI Name	JMSQueueConnectionFactory

        All other fields should be left at their default values.
    d. Click **OK**.
11. Return to the WebSphere JMS Provider page.
12. Create a new queue destination for each queue you created earlier by doing the following:
    a. In the Additional Properties table on the WebSphere JMS Provider page, click **WebSphere Queue Destination**.
    b. On the WebSphere Queue Destinations page, click **New**.

c. Complete the fields as follows:

Field	Value
Name	JMSSerialInboundQueue
JNDI Name	JMSSerialInboundQueue

All other fields should be left at their default values.

d. Click **OK**.

e. Repeat steps 12b on page 50 through 12d for the following queues:
- JMSParallelInboundQueue
- JMSErrorQueue
- JMSOutboundQueue
- JMSInboundQueue

Enter the names of the queues in both the **Name** and **JNDI Name** fields.

13. Save your changes by doing the following:

a. In the taskbar, click **Save**.

b. On the Save page in the workspace, click **Save**.

14. Exit the WebSphere Application Server Administrative Console.

15. Save your changes to the Full WebSphere Commerce Test Environment by selecting **File > Save**.

You must restart the Full WebSphere Commerce Test Environment for these changes to take effect.

Part 5. Uninstalling WebSphere Commerce Developer

If you encounter problems installing WebSphere Commerce Developer, you may want to uninstall one or more components and start again. This section explains how to uninstall each component of WebSphere Commerce Developer.

Uninstalling the WebSphere Commerce toolkit

To uninstall the WebSphere Commerce toolkit, do the following:

1. Select **Start > Settings > Control Panel > Add/Remove Programs**
2. Click **Change or Remove Programs**.
3. Select one of the following, depending on the edition you have installed:

   Business   **IBM WebSphere Commerce Business Edition toolkit 5.7**

   Professional   **IBM WebSphere Commerce Professional Edition toolkit 5.7**

   Express   **IBM WebSphere Commerce - Express toolkit 5.7**

4. Click **Remove**.

   The uninstall wizard starts.
5. Complete the uninstall wizard by following the prompts.

The uninstall will only remove files that were originally installed. Files that were created or modified after the installation will not be removed. You can delete the *WCDE_installdir* directory once you have determined that you do not need any of the remaining files.

Uninstalling multiple toolkit installations

When you have multiple WebSphere Commerce toolkit installations on the same machine, the entry in the Windows Add/Remove Programs panel only uninstalls the most recent WebSphere Commerce toolkit installation.

To uninstall a specific WebSphere Commerce toolkit installation, you must issue the following command:

```
WCDE_installdir/bin/uninstall
```

WCDE_installdir will be unique for each installation of the WebSphere Commerce toolkit on a machine.

Uninstalling WebSphere Studio Application Developer

Before uninstalling WebSphere Studio Application Developer, uninstall the WebSphere Commerce toolkit by following the instructions in "Uninstalling the WebSphere Commerce toolkit" on page 55.

To uninstall WebSphere Studio Application Developer, complete the following steps:

1. While logged on with a Windows user ID with Administrator authority, select **Start > Settings > Control Panel > Add/Remove Programs**.
2. Click **Change or Remove Programs**, select **IBM WebSphere Studio Application Developer 5.1.2** and click **Change/Remove**.

   The uninstall wizard starts.
3. Complete the uninstall wizard by following the prompts.
4. When the uninstall is complete, restart your machine.
5. Delete the following directories:
   - *WSAD_installdir*

   where the default value for *WSAD_installdir* is listed in "Path variables" on page iv.

Part 6. Appendixes

Appendix A. Troubleshooting your installation

Use the information in this section to troubleshoot your installation of WebSphere Commerce developer

"**Missing required library**" messages in Tasks view

Symptom:

After starting the WebSphere Commerce development environment, you see one or messages similar to the following in the WebSphere Studio Application Developer Tasks view:

```
Missing required library: WSAD_installdir/runtimes/base_v51/lib/file
```

or

```
Missing required library: WSAD_installdir/runtimes/base_v51_stub/lib/file
```

Problem:

You do not have the required WebSphere Application Server 5.1 Test Environment installed as part of WebSphere Studio Application Developer, Version 5.1.2.

Resolution:

To correct this problem, do the following:

1. Add the WebSphere Application Server 5.1 Test Environment to your WebSphere Studio Application Developer, Version 5.1.2 installation, you must run the WebSphere Studio Application Developer, Version 5.1.2 installation wizard from the WebSphere Studio Application Developer, Version 5.1.2 CDs. When completing the installation wizard, ensure that you select **Integrated Test Environments > WebSphere Application Server 5.1**.

   For instructions, refer to *IBM WebSphere Studio Application Developer for Windows and Linux Installation Guide* available on the WebSphere Studio Application Developer CDs.

2. Start the WebSphere Commerce development environment.

Business	Select **Start > Programs > IBM WebSphere Commerce Developer Business Edition > WebSphere Commerce development environment**
Professional	Select **Start > Programs > IBM WebSphere Commerce Developer Professional Edition > WebSphere Commerce development environment**
Express	Select **Start > Programs > IBM WebSphere Commerce - Express Developer > WebSphere Commerce development environment**

3. Rebuild the Servers project as follows:
   a. In the J2EE Hierarchy view, select **Servers**.
   b. Select **Project > Rebuild all**.
4. Confirm that the Tasks view contains no error messages.

The WebSphere Commerce development environment does not start

If the WebSphere Commerce development environment does not start, ensure that you have WebSphere Studio Application Developer, Version 5.1.2 installed and that the `WSAD_HOME` variable in the `setenv.bat` file is set to the full path to WebSphere Studio Application Developer, Version 5.1.2.

To correct the value for `WSAD_HOME`, do the following:

1. Open the following the file in a text editor:

   `WCDE_installdir\bin\setenv.bat`

2. Locate the line containing `WSAD_HOME` and ensure that it points to the full path WebSphere Studio Application Developer, Version 5.1.2 (*WSAD_installdir*).

3. Save any changes and exit the text editor

Generic Errors received when accessing WebSphere Commerce Payments

If you receive "Generic Error" messages when attempting to access any WebSphere Commerce Payments function, apply the Microsoft Internet Explorer patch available at the following URL:

`http://support.microsoft.com/?id=831167`

Appendix B. WebSphere Commerce development environment tasks

Starting WebSphere Commerce Developer

To start the WebSphere Commerce development environment, do one of the following, depending on your edition of WebSphere Commerce Developer:

Business	Select **Start > Programs > IBM WebSphere Commerce Developer Business Edition > WebSphere Commerce development environment**
Professional	Select **Start > Programs > IBM WebSphere Commerce Developer Professional Edition > WebSphere Commerce development environment**
Express	Select **Start > Programs > IBM WebSphere Commerce - Express Developer > WebSphere Commerce development environment**

Starting multiple instances of WebSphere Commerce Developer

If you have the WebSphere Commerce toolkit installed multiple times, the entry in the Windows Start menu starts the most recent installation of the WebSphere Commerce toolkit.

To start other installations of the WebSphere Commerce toolkit, issue the following command:

```
WCDE_installdir/bin/startWCToolkit
```

WCDE_installdir will be unique for each installation of the WebSphere Commerce toolkit on a machine.

Starting and stopping WebSphere Commerce

Prerequisites:

- The WebSphere Commerce development environment is running.

  For instructions on starting the WebSphere Commerce development environment, refer to "Starting WebSphere Commerce Developer."
- All test environments are stopped.

Procedure:

To start WebSphere Commerce within the WebSphere Commerce development environment, do the following:

- In the Servers view, right-click one of the following, depending on the test environment you want to start:
  - **Lightweight WebSphere Commerce Test Environment**
  - **Full WebSphere Commerce Test Environment**
- Select **Start** or **Stop** from the pop-up menu.
- Check the Console view to ensure that no errors occur as the WebSphere Commerce application server starts.

- The WebSphere Commerce is started successfully if there are no errors in the Console view and the following message appears in the Console view:

  ```
  Server server1 open for e-business
  ```

WebSphere Commerce Payments is also started with you start either test environment.

Before accessing any of the WebSphere Commerce tools, ensure that you start the WebSphere Commerce help system by following the instructions in "Starting the WebSphere Commerce information center."

Starting and stopping WebSphere Commerce Payments

Because WebSphere Commerce Payments is embedded into the test servers available in the WebSphere Commerce development environment, WebSphere Commerce Payments starts and stops when you start and stop the test environments.

If you are using remote WebSphere Commerce Payments, start WebSphere Commerce Payments following the instructions available in the WebSphere Commerce Information Center.

Starting the WebSphere Commerce information center

The help system starts automatically in the development environment. By default WebSphere Studio Application Developer runs the Help Server on a random port.

To start the help system in the WebSphere Commerce development environment, do the following:

1. Ensure that the WebSphere Commerce tools in the development environment can access the help system.

   For instruction on enabling help access from the WebSphere Commerce tools in the development environment, refer to "Enabling help access from the WebSphere Commerce tools in the development environment."

2. Start the WebSphere Commerce development environment.

   For instructions on starting the WebSphere Commerce development environment, refer to "Starting WebSphere Commerce Developer" on page 63.

3. Start the help system by selecting **Help > Help Contents** in the WebSphere Commerce development environment.

Enabling help access from the WebSphere Commerce tools in the development environment

To enable help to be accessed from the WebSphere Commerce Accelerator, Organization Administration Console, or the Administration Console, you must set the port that the help server uses to 8001, by doing the following:

1. Select **Window > Preferences > Help > Help Server**.
2. In the **Port for the server to listen on** field, type 8001.
3. Click **Apply**.
4. Restart WebSphere Studio Application Developer.

Starting the WebSphere Application Server Administrative Console in the WebSphere Commerce development environment

The WebSphere Application Server Administrative Console is not available if you are using the lightweight test environment.

Prerequisites:

- The WebSphere Commerce development environment is running.

  For instructions on starting the WebSphere Commerce development environment, refer to "Starting WebSphere Commerce Developer" on page 63.
- The full test environment is available.

Procedure:

To start the WebSphere Application Server Administrative Console in the WebSphere Commerce development environment, do the following:

1. Start the full test environment by doing the following:
   a. In the **Servers** view, right-click **Full WebSphere Commerce Test Environment**.
   b. Select **Start** from the pop-up menu.
2. Wait for the full test environment to start.

   The full test environment is started when you see the `Server server1 open for e-business` in the **Console** view.
3. In the **Servers** view, right-click **Full WebSphere Commerce Test Environment**.
4. Select **Run administrative console** from the pop-up menu.

The WebSphere Application Server Administrative Console will appear in the Admin Console view.

Accessing the Configuration page for a test environment

Prerequisites:

- The WebSphere Commerce development environment is running.

  For instructions on starting the WebSphere Commerce development environment, refer to "Starting WebSphere Commerce Developer" on page 63.
- All test environments are stopped.

Procedure:

To access the Configuration page for a test environment, do the following:

1. Stop any WebSphere Commerce test environments that may be running in WebSphere Studio Application Developer.
2. In the J2EE Hierarchy view in WebSphere Studio Application Developer, expand **Servers** and double-click one of the following:
   - **Full WebSphere Commerce Test Environment**

     This server is only available if you have added the full WebSphere Commerce test environment to the WebSphere Commerce development environment by following the instructions in "Adding the full WebSphere Commerce test environment to the WebSphere Commerce development environment" on page 29.
   - **Lightweight WebSphere Commerce Test Environment**

The test environment view for the test environment you double-clicked displays.

3. In the test environment view, select the **Configuration** page.

Note: Changes made in a test environment view apply to both test environments.

Appendix C. Accessing WebSphere Commerce tools and starter stores in WebSphere Commerce Developer

This section provides instructions on how to access the WebSphere Commerce tools and starter stores from within the WebSphere Commerce development environment.

WebSphere Commerce tools

Before you can access the WebSphere Commerce tools in the WebSphere Commerce development environment, you must have one of the test environments started.

WebSphere Commerce Accelerator

To access the WebSphere Commerce Accelerator in a test environment, use the following URL:

```
https://hostname:8000/webapp/wcs/tools/servlet/
 ToolsLogon?XMLFile=common.mcLogon
```

where *hostname* is the fully qualified host name of the WebSphere Commerce Developer machine. If you are accessing WebSphere Commerce Accelerator directly from the WebSphere Commerce Developer machine, you can use `localhost` as the host name.

The initial ID is `wcsadmin`. The initial password is `wcsadmin`.

For more information on the WebSphere Commerce Accelerator, refer to the WebSphere Commerce Information Center.

WebSphere Commerce Administration Console

To access the WebSphere Commerce Administration Console in a test environment, use the following URL:

```
https://hostname:8002/webapp/wcs/admin/servlet/
 ToolsLogon?XMLFile=adminconsole.AdminConsoleLogon
```

where *hostname* is the fully qualified host name of the WebSphere Commerce Developer machine. If you are accessing WebSphere Commerce Administration Console directly from the WebSphere Commerce Developer machine, you can use `localhost` as the host name.

The initial ID is `wcsadmin`. The initial password is `wcsadmin`.

For more information on the WebSphere Commerce Administration Console, refer to the WebSphere Commerce Information Center.

WebSphere Commerce Organization Administration Console

To access the WebSphere Commerce Organization Administration Console in a test environment, use the following URL:

```
https://hostname:8004/webapp/wcs/orgadmin/servlet/
 ToolsLogon?XMLFile=buyerconsole.BuyAdminConsoleLogon
```

where *hostname* is the fully qualified host name of the WebSphere Commerce Developer machine. If you are accessing WebSphere Commerce Organization Administration Console directly from the WebSphere Commerce Developer machine, you can use `localhost` as the host name.

The initial ID is `wcsadmin`. The initial password is `wcsadmin`.

For more information on the WebSphere Commerce Organization Administration Console, refer to the WebSphere Commerce Information Center.

WebSphere Commerce Payments console

To access the WebSphere Commerce Payments console for WebSphere Commerce Payments running in a test environment, use the following URL:

`https://`*hostname*`/webapp/PaymentManager/PaymentServerUI/Start`

where *hostname* is the fully qualified host name of the WebSphere Commerce Developer machine. If you are accessing WebSphere Commerce Organization Administration Console directly from the WebSphere Commerce Developer machine, you can use `localhost` as the host name.

The initial ID is `wcsadmin`. The initial password is `wcsadmin`.

For more information on the WebSphere Commerce Payments console, refer to the WebSphere Commerce Information Center.

WebSphere Commerce development environment database access tool

If you need to issue SQL statements against the WebSphere Commerce database while a test environment is running, use the following URL:

`http://`*hostname*`/webapp/wcs/admin/servlet/db.jsp`

where *hostname* is the fully qualified host name of the WebSphere Commerce Developer machine. If you are accessing this URL directly from the WebSphere Commerce Developer machine, you can use `localhost` as the host name.

This will provide an entry field where you can issue SQL statements that will execute against the WebSphere Commerce database.

▶Cloudscape To issue SQL commands against the WebSphere Commerce database when the lightweight WebSphere Commerce test environment is stopped, use the `ij.bat` utility to start a Cloudscape SQL session as follows:

1. Shut down your test environment.
2. Navigate to the *WCDE_installdir*`\bin` directory.
3. Issue the following command:

   `ij.bat`

   This starts a Cloudscape SQL session.
4. Issue the following command to connect to the WebSphere Commerce database:

   `connect '..\db\mall';`

When working in a Cloudscape SQL session, ensure that you end all of your SQL statements with a semicolon.

To close a Cloudscape SQL session, issue the following command:
```
exit;
```

WebSphere Commerce starter stores

Before you can access the starter stores, you must have one of the test environments started and the starter store you want to access must be published in the test environment.

After the initial installation of WebSphere Commerce Developer, all of the starter stores provided with your edition of WebSphere Commerce Developer are published in the lightweight WebSphere Commerce test environment. For the full WebSphere Commerce test environment, you must publish each starter store manually.

In the following sections, refer to the **Edition notice** to see if the starter store discussed is provided with your edition of WebSphere Commerce Developer.

Advanced B2B Direct starter store

> **Edition notice**
>
> The Advanced B2B Direct starter store is provided with WebSphere Commerce Developer Business Edition.
>
> The Advanced B2B Direct starter store is not provided with WebSphere Commerce Developer Professional Edition or WebSphere Commerce - Express Developer Edition

To access the Advanced B2B Direct starter store in a test environment, use the following URL:
```
http://hostname/webapp/wcs/stores/servlet/AdvancedB2BDirect/index.jsp
```

where *hostname* is the fully qualified host name of the WebSphere Commerce Developer machine. If you are accessing the Advanced B2B Direct starter store directly from the WebSphere Commerce Developer machine, you can use `localhost` as the host name.

For more information on the Advanced B2B Direct starter store, refer to the WebSphere Commerce Information Center.

B2B Direct starter store

> **Edition notice**
>
> The B2B Direct starter store is provided with WebSphere Commerce Developer Professional Edition and WebSphere Commerce - Express Developer Edition
>
> The B2B Direct starter store is not provided with WebSphere Commerce Developer Business Edition.

To access the B2B Direct starter store in a test environment, use the following URL:
```
http://hostname/webapp/wcs/stores/servlet/B2BDirect/index.jsp
```

where *hostname* is the fully qualified host name of the WebSphere Commerce Developer machine. If you are accessing the B2B Direct starter store directly from the WebSphere Commerce Developer machine, you can use `localhost` as the host name.

For more information on the B2B Direct starter store, refer to the WebSphere Commerce Information Center.

Consumer Direct starter store

> **Edition notice**
> The Consumer Direct starter store is provided with WebSphere Commerce Developer Business Edition, WebSphere Commerce Developer Professional Edition, WebSphere Commerce - Express Developer Edition

To access the Consumer Direct starter store in a test environment, use the following URL:

`http://hostname/webapp/wcs/stores/servlet/ConsumerDirect/index.jsp`

where *hostname* is the fully qualified host name of the WebSphere Commerce Developer machine. If you are accessing the Consumer Direct starter store directly from the WebSphere Commerce Developer machine, you can use `localhost` as the host name.

For more information on the Consumer Direct starter store, refer to the WebSphere Commerce Information Center.

Commerce Hosting Hub starter store

> **Edition notice**
> The Commerce Hosting Hub starter store is provided with WebSphere Commerce Developer Business Edition.
>
> The Commerce Hosting Hub starter store is not provided with WebSphere Commerce Developer Professional Edition or WebSphere Commerce - Express Developer Edition

To access the Commerce Hosting Hub starter store in a test environment, use the following URL:

`http://hostname/webapp/wcs/stores/servlet/CommerceHostingHub/index.jsp`

where *hostname* is the fully qualified host name of the WebSphere Commerce Developer machine. If you are accessing the Commerce Hosting Hub starter store directly from the WebSphere Commerce Developer machine, you can use `localhost` as the host name.

For more information on the Commerce Hosting Hub starter store, refer to the WebSphere Commerce Information Center.

Commerce Plaza starter store

> **Edition notice**
>
> The Commerce Plaza starter store is provided with WebSphere Commerce Developer Business Edition.
>
> The Commerce Plaza starter store is not provided with WebSphere Commerce Developer Professional Edition or WebSphere Commerce - Express Developer Edition

To access the Commerce Plaza starter store in a test environment, use the following URL:

`http://`*hostname*`/webapp/wcs/stores/servlet/CommercePlaza/index.jsp`

where *hostname* is the fully qualified host name of the WebSphere Commerce Developer machine. If you are accessing the Commerce Plaza starter store directly from the WebSphere Commerce Developer machine, you can use `localhost` as the host name.

For more information on the Commerce Plaza starter store, refer to the WebSphere Commerce Information Center.

Commerce Supplier Hub starter store

> **Edition notice**
>
> The Commerce Supplier Hub starter store is provided with WebSphere Commerce Developer Business Edition.
>
> The Commerce Supplier Hub starter store is not provided with WebSphere Commerce Developer Professional Edition or WebSphere Commerce - Express Developer Edition

To access the Commerce Supplier Hub starter store in a test environment, use the following URL:

`http://`*hostname*`/webapp/wcs/stores/servlet/SupplierMarketplace/index.jsp`

where *hostname* is the fully qualified host name of the WebSphere Commerce Developer machine. If you are accessing the Commerce Supplier Hub starter store directly from the WebSphere Commerce Developer machine, you can use `localhost` as the host name.

For more information on the Commerce Supplier Hub starter store, refer to the WebSphere Commerce Information Center.

Appendix D. Where to find more information

More information about the WebSphere Commerce Developer 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 Developer information

The following are the sources of WebSphere Commerce Developer information:
- "WebSphere Commerce Developer information center"
- "WebSphere Commerce Developer support Web site"
- "WebSphere Commerce library" on page 74
- "WebSphere Developer Domain" on page 74
- "IBM Redbooks" on page 74

WebSphere Commerce Developer information center

The WebSphere Commerce Developer information center is your primary source of information for creating and publishing stores in WebSphere Commerce Developer.

To view the WebSphere Commerce Developer information center, do the following:
1. Start the WebSphere Commerce development environment.
2. From the **Help** menu, select **Help Contents**.
3. After a few moments, the information center displays. In the navigation pane of the information center, click **WebSphere Commerce**.

Note: If you refer to instructions for multiple platforms in the WebSphere Commerce Information Center, ensure you follow the instructions for WebSphere Commerce Developer. When a help page contains information for multiple platforms, information specific to WebSphere Commerce Developer is indicated with the following icon:

If information specific to WebSphere Commerce Developer is not available, ensure you follow instructions specific to Windows, When a help page contains instructions for multiple platforms, instructions for Windows are indicated with the following icon:

WebSphere Commerce Developer support Web site

The WebSphere Commerce Developer support Web site is your source for fixes and technotes related to WebSphere Commerce Developer. The WebSphere Commerce Developer support Web site is available at the following URL:

`http://www.ibm.com/software/genservers/commerce/commercestudio/support/`

WebSphere Commerce library

WebSphere Commerce Developer product information is available at the WebSphere Commerce library. Refer to the following URL for more product information:

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

WebSphere Developer Domain

Additional information on WebSphere Commerce Developer and WebSphere Commerce is also available in the WebSphere Commerce Zone at WebSphere Developer Domain:

```
http://www.ibm.com/websphere/developer/zones/commerce/
```

IBM Redbooks

WebSphere Commerce Developer and WebSphere Commerce information is available at the IBM Redbooks™ Web site:

```
http://www.ibm.com/redbooks
```

WebSphere Studio Application Developer information

The following are sources of information for WebSphere Studio Application Developer:

- "WebSphere Studio Application Developer online help"
- "WebSphere Studio Application Developer Web site"
- "WebSphere Developer Domain"
- "IBM Redbooks" on page 75

WebSphere Studio Application Developer online help

The WebSphere Studio Application Developer online help is your primary source of information on how to perform tasks within WebSphere Studio Application Developer.

To view the WebSphere Studio Application Developer online help, do the following:

1. Start WebSphere Commerce Developer by selecting **Start > Programs > IBM WebSphere Studio > Application Developer > V5.1.1**.
2. From the **Help** menu, select **Help Contents**.

WebSphere Studio Application Developer Web site

WebSphere Studio Application Developer product information is available on the WebSphere Studio Application Developer Web site:

```
http://www.ibm.com/software/ad/studioappdev/library/
```

WebSphere Developer Domain

Additional information on WebSphere Studio Application Developer is available on the WebSphere Studio Application Developer page of the WebSphere Studio Zone of WebSphere Developer Domain:

```
http://www.ibm.com/websphere/developer/zones/studio/appdev/
```

IBM Redbooks

WebSphere Studio Application Developer information is available at the IBM Redbooks Web site:

`http://www.ibm.com/redbooks`

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